TOSHIBA

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SERVICE MANUAL

COLOUR TELEVISION

C03P Chassis

42PW33P

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CHAPTER 1 GENERAL ADJUSTMENTS

SAFETY INSTRUCTIONS

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" INSTRUCTIONS BELOW.

X-RAY RADIATION PRECAUTION

1. Excessive high voltage can produce potentially hazardous X-RAY RADIATION. To avoid such hazards, the high voltage must not be above the specified limit. The nominal value of the high voltage of this receiver is (A) kV at zero beam current (minimum brightness) under a (C) V AC power source. The high voltage must not, under any circumstances, exceed (B) kV.

   Refer to table-1 for high voltage (A), (B) & AC voltage (C). (See SETTING & ADJUSTING DATA on page 31)

   Each time a receiver requires servicing, the high voltage should be checked following the HIGH VOLTAGE CHECK procedure in this manual. It is recommended that the reading of the high voltage be recorded as a part of the service record. It is important to use an accurate and reliable high voltage meter.
2. The only source of X-RAY RADIATION in this TV receiver is the picture tube. For continued X-RAY RADIATION protection, the replacement tube must be exactly the same type tube as specified in the parts list.
3. Some part in this receiver have special safety-related characteristics for X-RAY RADIATION protection. For continued safety, parts replacement should be undertaken only after referring to the PRODUCT SAFETY NOTICE below.

SAFETY PRECAUTION

WARNING : Service should not be attempted by anyone unfamiliar with the necessary precautions on this receiver. The following are the necessary precautions to be observed before servicing this chassis.

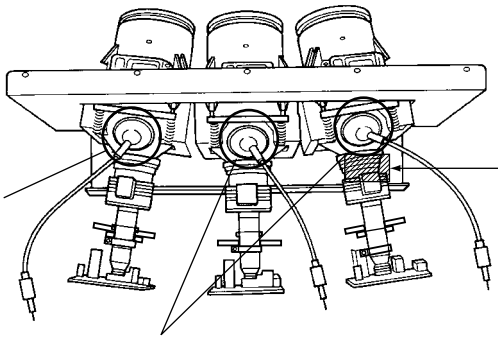
1. An isolation transformer should be connected in the power line between the receiver and the AC line before any service is performed on the receiver.
2. Always discharge the picture tube anode to the CRT conductive coating before handling the picture tube. The picture tube is highly evacuated and if broken, glass fragments will be violently expelled. Use shatter proof goggles and keep picture tube away from the unprotected body while handling.
3. When replacing a chassis in the cabinet, always be certain that all the protective devices are put back in place, such as; non-metallic control knobs, insulating covers, shields, isolation resistor-capacitor network etc.

PRODUCT SAFETY NOTICE

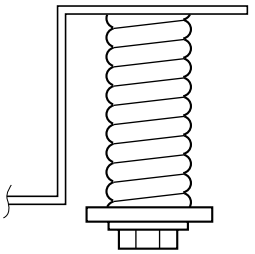
Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the international hazard symbols on the schematic diagram and the parts list.
Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create shock, fire, X-ray radiation or other hazards.

CRT ASSEMBLY REPLACEMENT AND MOUNTING

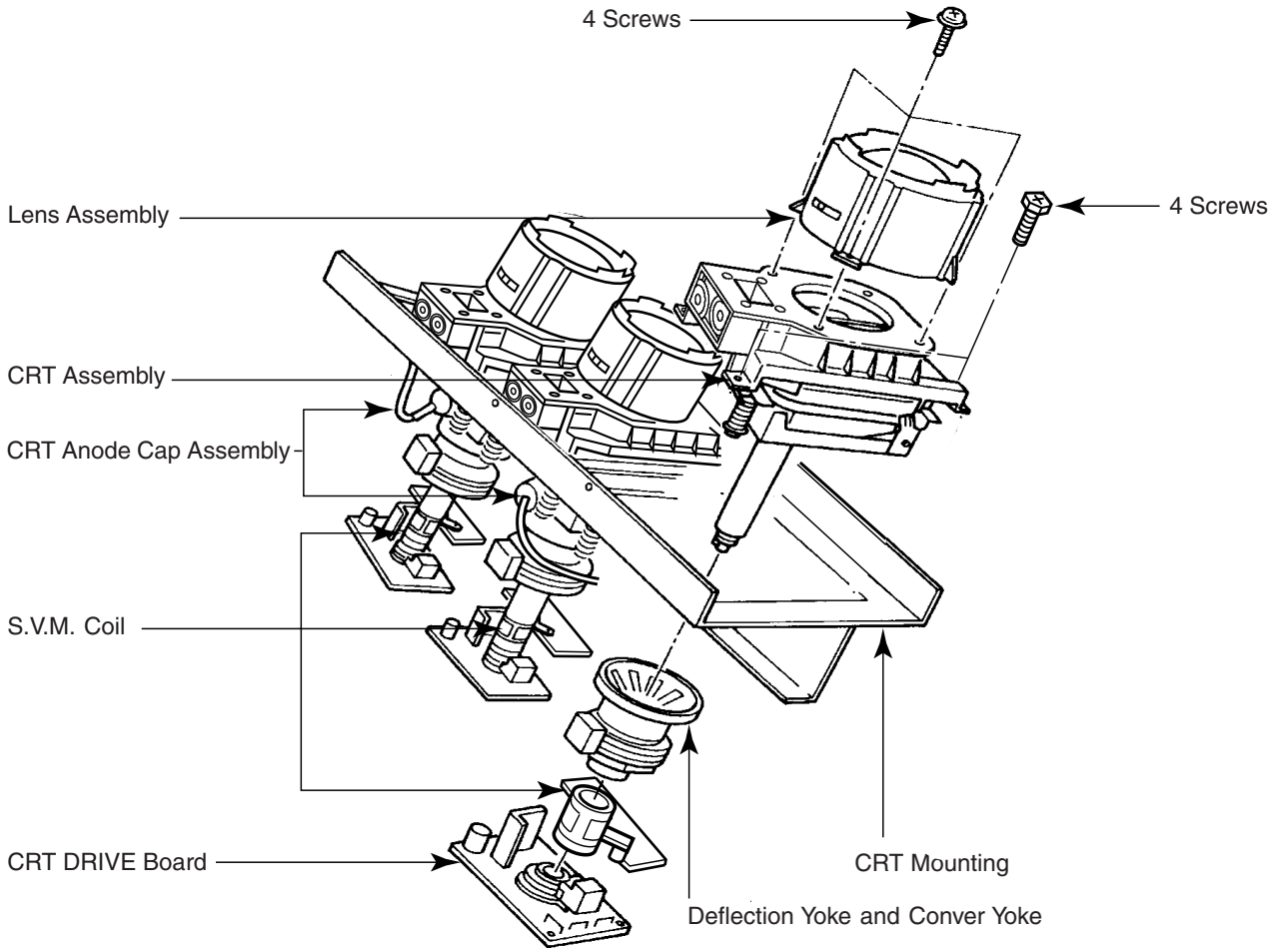
CAUTION : DO NOT LOOSEN THE HEX HEAD BOLTS WITH SPRINGS (12 PCS), BECAUSE THOSE ARE FOR SEALING OF CRT COOLANT.



Attention Serviceman



The Hex Head Bolts with Springs. (see sketch) used on CRT assembly, are "NOT" Adjustment Screws DO NOT LOOSEN-FLUID LEAKAGE WILL OCCUR.



Lens and Neck Components View

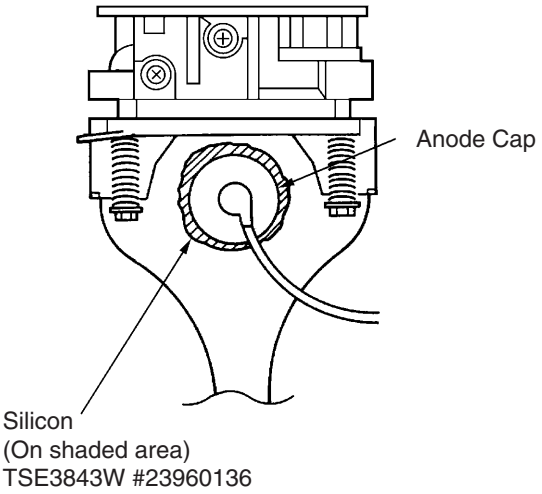
TO REMOVE CRT (Same procedure for R, G, B)

1. Remove CRT DRIVE Board, S. V. M. COIL and DEF. YOKE from CRT.
2. Remove Lens Assembly.
3. Detach CRT Anode Cap from CRT.
4. Remove CRT Assembly from CRT Mounting.

CRT REPLACEMENT (Same procedure for R, G, B)
Reverse the removal procedures except the followings.

1. Anode Cable should be replaced with new one. See "SERVICING PRECAUTIONS" shown below.
2. Install silicon (T461B) to the CRT, replace the Anode cable and put enough silicon again on around the Anode Cap as illustrated.

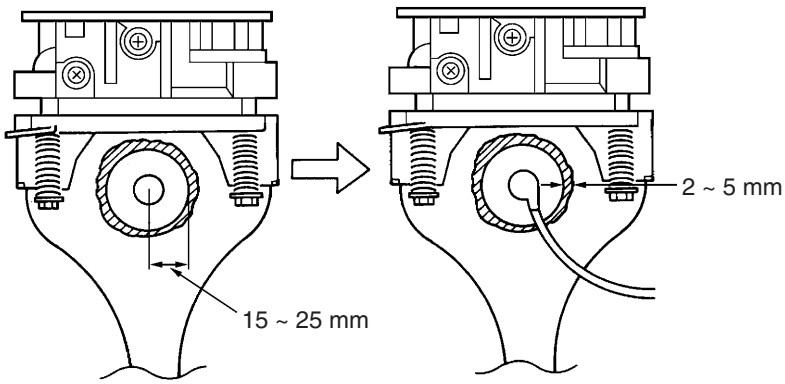
CAUTION: Align the Anode cable as illustrated on page 4.



ADJUSTING PROCEDURE IN REPLACING CRT

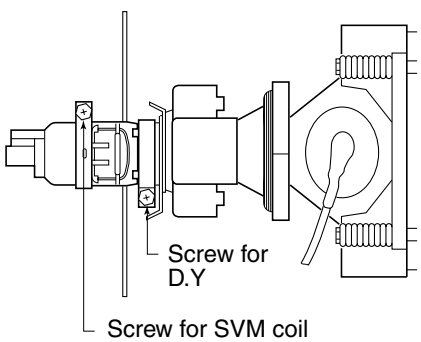
1. R.G.B. CUTOFF (SCREEN VR) ADJUSTMENT (page 6.)
2. R.G.B. FOCUS ADJUSTMENT (page 6.)
3. PICTURE TILT ADJUSTMENT (page 7.)
4. USER CONVERGENCE CENTER CHECK (Refer to owner's manual.)
5. CENTERING ADJUSTMENT (page 7.)
6. CONVERGENCE ADJUSTMENT (page 20.)
7. WHITE BALANCE ADJUSTMENT (page 14.)

Adjustments are complete.



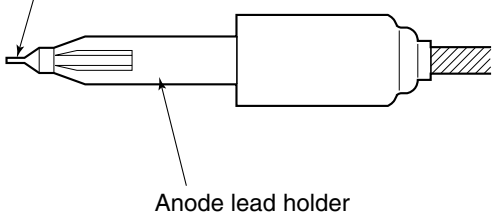
SERVICING PRECAUTIONS

■ Do not use a magnetized screw driver for screws of Deflection Yoke and Velocity Modulation Coil to avoid magnetization of electron gun. Magnetization of electron gun will degrade basic function and result in unbalance of right and left shift of user static convergence, and result in no variable quantity.



■ When replacing the anode cap assembly (CRT) or anode lead assembly (F.B.T.), remove the anode lead holder from old one and attach the holder again to new anode lead.

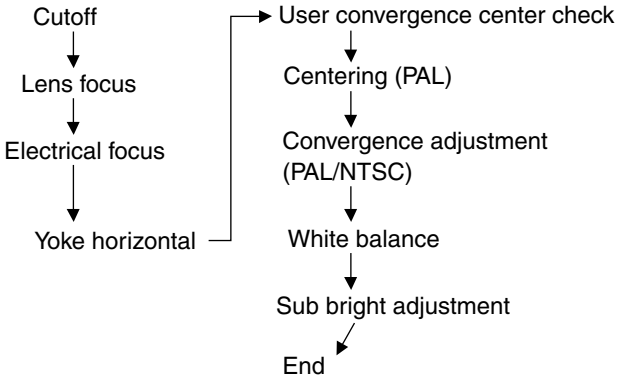
■ Check the point of anode lead in a straight line, if it is winding, please revise it.



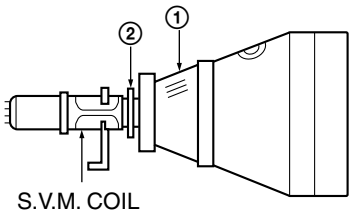
WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL.

PICTURE TUBE COMPONENTS ADJUSTMENT

ADJUSTING PROCEDURE IN REPLACING CRT



DESCRIPTION OF NECK COMPONENTS



① Deflection yoke and convergence yoke.
The position on the neck is required most front (CRT funnel side) and the screw is fastened after rotating yoke adjusting picture tilt.

② Centering magnet
After adjusting picture tilt, picture position is finally fixed by this magnet.
In order to get maximum margin of user convergence control for center of screen, this magnet have to be used for center convergence adjustment.

PREPARATION
Operate the receiver for at least 5 minutes.

R, G, B CUTOFF (SCREEN VR) ADJUSTMENT

1. Adjust before replace the screen assembly.
2. Set user control to reset position.
   (CONTRAST → Max
   BRIGHTNESS, COLOR, TINT → Center.)
3. Call up the adjustment mode display, then select the item RCUT.
4. Adjust the data of items **RCUT**, **GCUT**, and **BCUT** to "40H".
5. Press the -/-- button on Remote. (Y-MUTE : ON)
6. Gradually rotate R, G and B screen volume of FOCUS PAC clockwise or counterclockwise until the raster appears slightly on the CRT through the each lens, and leave them.
   (Lookin to the lens in order to check the raster.)
7. Press the -/-- button on Remote. (Return to Normal Picture)

RGB FOCUS ADJUSTMENT

1. Call-up the adjustment mode (see page 10)
2. Press ⊖ button on the remote controller in order to display the internally-generated cross-hatch (See TEST SIGNAL SELECTION on page 11.)
3. Expose only RED by covering the GREEN and BLUE lenses with caps.
4. Loosen the RED lens fixing screws (refer to Fig. a), and adjust the RED lens focus to obtain the sharpest point while observing the middle and peripheral sections of the screen.

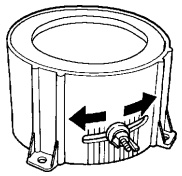


Fig. a

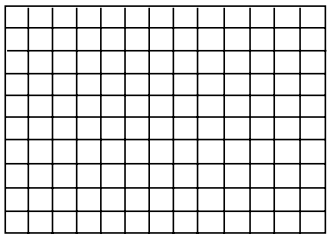
5. Use the focus VR of "R" of the focus pack in order to adjust the electric focus in the middle and peripheral sections of the screen to its sharpest level.
6. Check the RED focus of the whole screen and if necessary repeat steps 4 and 5.
7. Fix the RED lens by tightening its fixing screws.
8. Expose only GREEN by covering the RED and BLUE lenses with caps.
9. Display the internally-generated cross-hatch signal.
10. Adjust the GREEN lens focus on the left border of the screen to its sharpest level, then check the focus on the right border, and if it is at its sharpest level, fix it in that position by tightening the lens screws.

    (1) If the horizontal line toward the right border is red-flared, turn the lens screw slightly right in order to balance it with the left border. (After adjustment, the left border tends to be slightly green-flared, and the right border tends to be slightly red-flared.)
    (2) If the horizontal line toward the right border is green-flared, turn the lens screw slightly left in order to balance it with the left border. (After adjustment, the left border tends to be slightly red-flared, and the right border tends to be slightly green-flared.)

Note: The aim of the above-described adjustment procedure for the Green lens focus is to obtain the best lens focus after 2 - 3 hours of warming up taking into account the focus drift; it applies if the warming up time before the adjustment is less than 30 minutes. (The horizontal line in the screen middle section tends to be slightly red-flared.)

In case of warming up of more than 2 hours under a condition that the large anode current is running through the projection tube so that for example the all-white pattern appears, adjust to obtain the sharpest focus while observing the whole screen like in the RED case.

11. Press ⊖ button on the remote controller in order to display the internally-generated black cross-hatch. (See TEST SIGNAL SELECTION on page 11.)



12. Use the focus VR of "G" of the focus pack in order to adjust the electric focus in the middle section of the screen to its sharpest level.

Note: Normally the most clearly visible point of the scanning line is the sharpest point of the Green focus, however as the characteristics vary depending on the projection tube, the sharpest focus points of the vertical and horizontal lines may not match each other, thus when you turn the focus VR, if the picture tends to be tremendously unstable (rolls horizontally or vertically), adjust the balance of the vertical and horizontal lines to its best position.

13. Check the GREEN focus of the whole screen and if necessary repeat steps 10 and 11.
14. Fix the GREEN lens by tightening up its fixing screws.
15. Expose only BLUE by covering the RED and GREEN lenses with caps.
16. Press ⊖ button on the remote controller in order to display the internally-generated cross-hatch (See TEST SIGNAL SELECTION on page 11.)
17. Loosen the BLUE lens fixing screws (refer to Fig. a), and adjust the BLUE lens focus while observing the middle and peripheral screen sections.
18. Press ⊖ button on the remote controller in order to display the internally-generated black cross-hatch (See TEST SIGNAL SELECTION on page 11.)
19. Use the focus VR of "B" of the focus pack in order to adjust the focus in the middle section of the screen to its sharpest level.
    (The point of the Blue focus becomes sharpest when the brightness level of BLUE is lowest, the cross-hatch is clearly visible.)

Note: Keep in mind that only the BLUE electric focus is adjusted with the black cross-hatch.

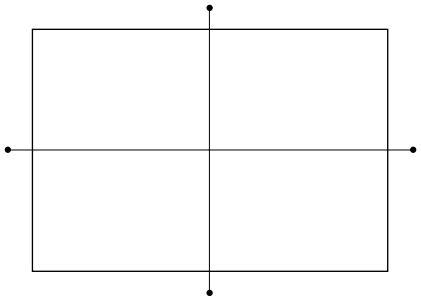
20. Check the BLUE focus of the whole screen and if necessary repeat steps 17 and 19.
21. Fix the BLUE lens by tightening its fixing screws.

PICTURE TILT ADJUSTMENT

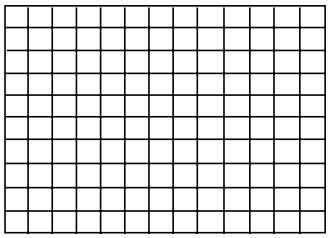
Rotate R, G, B deflection yoke so that picture becomes horizon, then fasten screw.

CENTERING ADJUSTMENT

1. Stretch a thread between two center slots of screen edge (top and bottom, left and right).



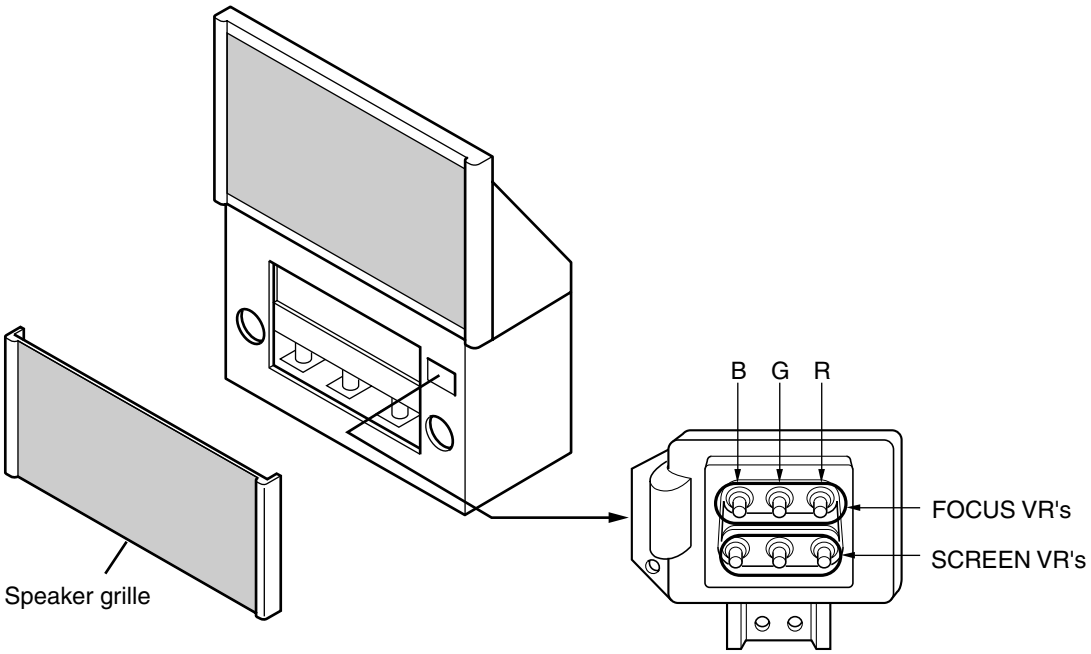
2. Select the adjustment mode. (See page 10.)
3. Press TV/VIDEO button on the Remote Control to display the black cross-hatch.



4. Adjust G centering magnet so that the cross-hatch pattern center comes to screen center.
5. Perform HEIGHT adjustment . (See page 14.)
6. Perform VERT. LINEARITY adjustment. (See page 14.)
7. Perform WIDTH adjustment. (See page 14.)
8. Check whole quality of green line.
9. Adjust R, B centering magnet so that the cross-hatch pattern center comes to screen center.

LOCATION OF SCREEN AND FOCUS VR'S

To remove the Speaker grille and Front panel.



REPLACEMENT OF HIGH VOLTAGE CABLE

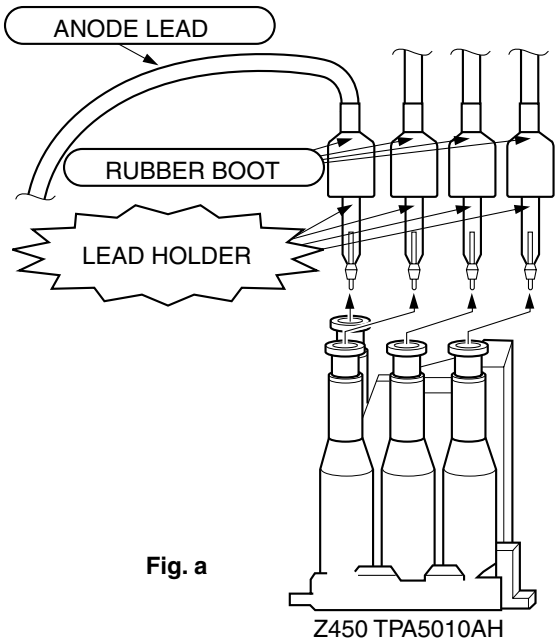


Fig. a

1. When replacing Anode Lead or Anode Cap with new one, remove Lead Holder from old lead as shown in figure below, and put it on new lead. Do not throw away Lead Holder.

NOTE : THE LEAD HOLDER IS ATTACHED TO TPA5010AH (Z450), BUT IS NOT ATTACHED TO ANODE LEAD AND ANODE CAP. RUBBER BOOT IS ATTACHED TO ANODE LEAD AND ANODE CAP.

2. Detaching Lead Holder

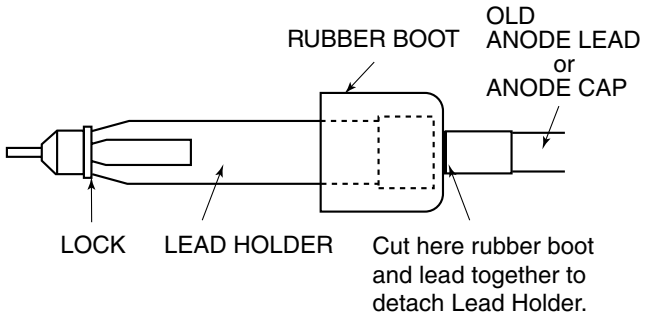


Fig. b

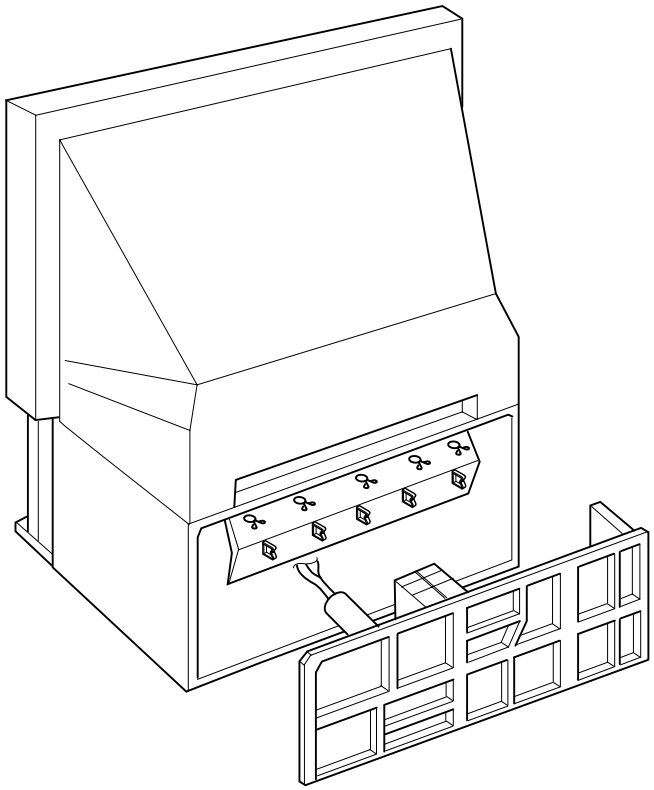
WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL.

SERVICE POSITION

In order to assure the performance, processed wires shall be replaced after the repair work.
Work procedures are as follows:

1. Remove the back board.
2. Remove lead wires.
3. Draw out the chassis.
4. Rest the chassis against the back cabinet, chassis as shown bellow.

After repair work finished, replace it in the opposite procedure.



SERVICE MODE

1. ENTERING TO SERVICE MODE

1) Press 🔇 button once on Remote Control.

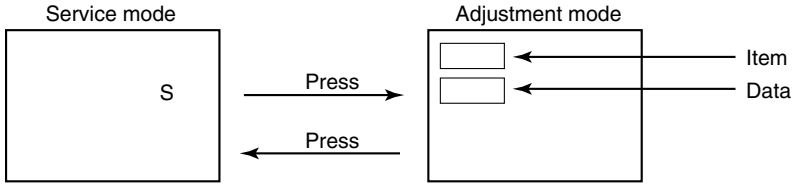
2) Press 🔇 button again to keep pressing.

3) While pressing the 🔇 button, press MENU button on TV set.

(Service mode display)

2. DISPLAYING THE ADJUSTMENT MENU

1) Press MENU button on TV.



3. KEY FUNCTION IN THE SERVICE MODE

The following key entry during display of adjustment menu provides special functions.

Screen adjustment mode ON/OFF:	-/-- button (on Remote)
Test signal selection :	⊖ button (on Remote)
Selection of the adjustment items :	Channel ▲/▼ (on TV or Remote)
Change of the data value :	Volume ◿ +/– (on TV or Remote)
Adjustment menu mode ON/OFF :	MENU button (on TV)
Initialization of the memory (QA02) :	CALL + Channel button on TV (▲)
Reset the count of operating protect circuit to "00":	CALL + Channel button on TV (▼)
"RCUT" selection :	1 button
"GCUT" selection :	2 button
"BCUT" selection :	3 button
"SCNT" selection :	4 button
"COLP" selection :	5 button– – – – – Color thickness correction
"TNTC" selection :	6 button
Convergence adj :	YELLOW button
Self diagnostic display ON/OFF :	9 button

note: Displayed differently as shown below, depending on the setting of the receiving color system.
COLP (PAL)
COLC (NTSC)
COLS (SECAM)

CAUTION : Never try to perform initialization unless you have changed the memory IC.

4. SELECTING THE ADJUSTING ITEMS

1) Every pressing of CHANNEL ▲ button in the service mode changes the adjustment items in the order of table-2. (▼ button for reverse order)

Refer to table-2 for preset data of adjustment mode.
(See SETTING & ADJUSTING DATA on page 31)

5. ADJUSTING THE DATA

1) Pressing of VOLUME +/– button will change the value of data in the range from 00H to FFH. The variable range depends on the adjusting item.

6. EXIT FROM SERVICE MODE

1) Pressing POWER button to turn off the TV once.

■ INITIALIZATION OF MEMORY DATA OF QA02

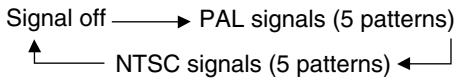
After replacing QA02, the following initialization is required.

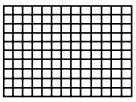
1. Enter the service mode, then select any register item.
2. Press and hold the CALL button on the Remote, then press the CHANNEL ▲ button on the TV. The initialization of QA02 has been complated.
3. Check the picture carefully. If necessary, adjust any adjustment item above. Perform “Auto search Memory” on the owner’s manual.

CAUTION: Never attempt to initialize the data unless QA02 has been replaced.

7. TEST SIGNAL SELECTION

1) Every pressing of ⊖ button on the Remote Control changes the built-in test patterns on screen as described below in SERVICE MODE.

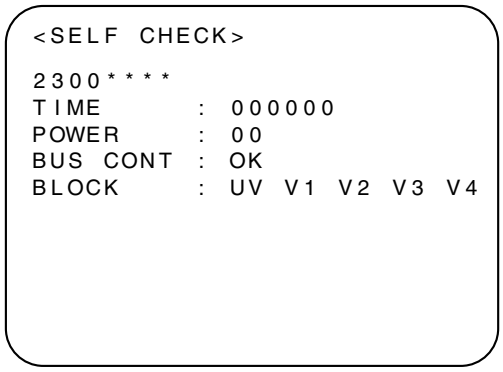


Signals	Picture
• Red raster • Green raster • Blue raster • All White	
• Black cross-hatch	

* The signals marked with ■ are not usable to display in the Test signal for some model.

8. SELF DIAGNOSTIC FUNCTION

1) Press “9” button on Remote Control during display of adjustment menu in the service mode.
   The diagnosis will begin to check if interface among IC’s are executed properly.
2) During diagnosis, the following displays are shown.



Indicated color of mode now selected : Green and Red
Indicated color of other modes : Black

Green : Normal
Red : The microcomputer operates to provide judgement of no video signal. The red color is still indicated though the signal is input, failure may exist in input signal line including QV01.

NOTE: (1) In case that "on timer" indicator is blinking with interval of 0.5 seconds; it means protecting circuit (Current limiter) is operating, and circuit components may possibly be damaged. Check related components.
(2) In case that "on timer" indicator is blinking with interval of 1 second; Protecting circuit does not operate, but a part of Bus line does not operate normally. Check Bus line.

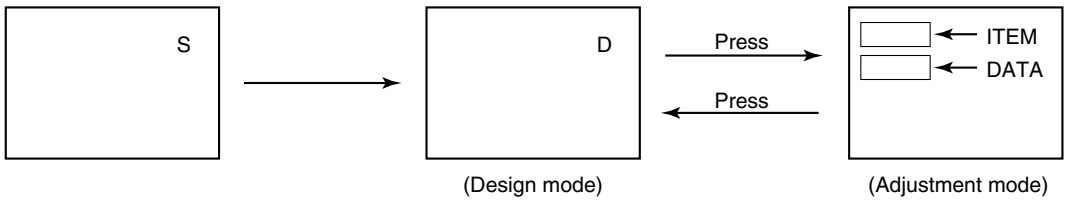
① Part number of microcomputer (QA01)
② Total hour of turn the TV on. (Unit: H)
③ Operation number of protecting circuit ----“00” is normal.
When indication is other than “00”, overcurrent apts to flow, and circuit parts may possibly be damaged.
④ BUS CONT ----“OK” is normal.
When indication shows “Q ○○○ NG”, the device with the number may possibly be damaged.
⑤ BLOCK
UV : TV reception mode
V1 : VIDEO 1 input mode (→①1)
V2 : VIDEO 2 input mode (→①2)
V3 : VIDEO 3 input mode
V4 : VIDEO 4 input mode

* The items marked with ■ are not usable to display in the SELF DIAGNOSTIC FUCTION for some model.

DESIGN MODE

1. ENTERING TO DESIGN MODE

1) Select the Service mode. 2) While pressing CALL button on Remote and press MENU button on TV. 3) Press MENU button on TV.



When QA02 is initialized, items “OPT0”, “OPT1” and "OPT2" of DESIGN MODE are set to the data of the representative model of this chassis family.
Therefore, because ON-SCREEN specification remains in the state of the representative of model. This model is required to reset the data of items “OPT0”, “OPT1” and "OPT2".

2. SELECTING THE ADJUSTING ITEMS

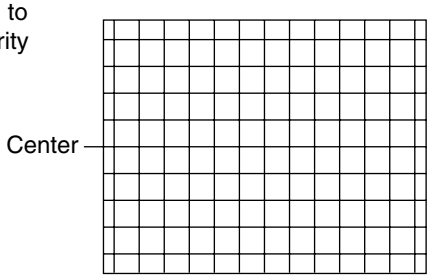
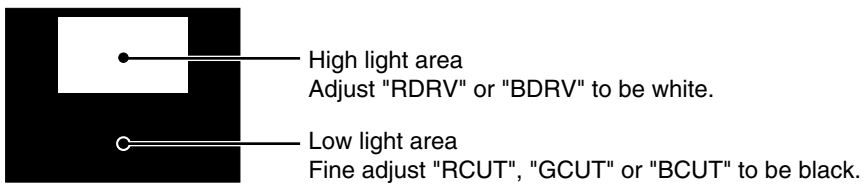
Every pressing of CHANNEL ▼ button in the design mode changes the adjustment items in the order of table-3. (▲ button for reverse order)

Refer to table-3 for data of design mode.
(See SETTING & ADJUSTING DATA on page 31)

3. ADJUSTING THE DATA

Pressing of VOLUME ▲ or ▼ button will change the value of data.

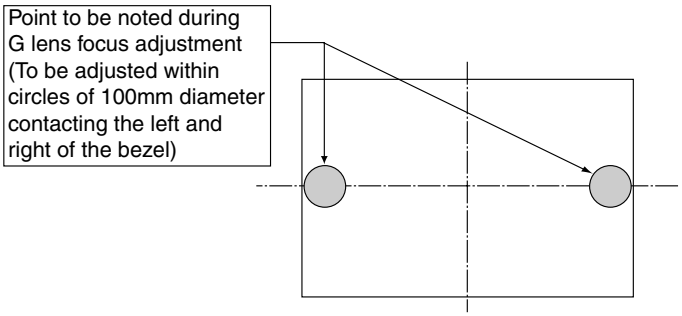
ELECTRICAL ADJUSTMENT

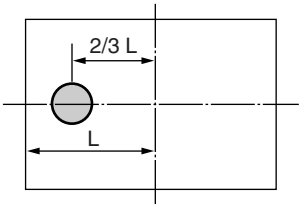
ITEM	ADJUSTMENT PROCEDURE
WIDTH (WID)	1. Call up the adjustment mode display, then select the item **WID**. 2. Press the VOLUME ▼ button to get the picture so the left or right edges of raster begins to lack. 3. Press the VOLUME ▲ button to advance the data by 10 steps. Note : Check the horizontal picture position is correct.
VERTICAL LINEARITY (VLIN)	1. Call up the adjustment mode display, then select the item **VLIN**. 2. Press the TV/VIDEO button on Remote until the cross-hatch pattern appears on the screen. 3. Press the VOLUME ▲ or ▼ button to obtain the picture of the best linearity 
HEIGHT (HIT)	1. Call up the adjustment mode display, then select the item **HIT**. 2. Press the VOLUME ▼ button to get the picture so the top or bottom of raster begins to lack. 3. Press the VOLUME ▲ button to advance the data by 11 steps. Note : Check the vertical picture position is correct.
WHITE BALANCE (RCUT) (GCUT) (BCUT) (RDRV) (BDRV)	Black and White pattern  1. Set user control to reset position. (CONTRAST → Max BRIGHTNESS, COLOR, TINT → Center.) 2. Call up the adjustment mode display, then select the item RCUT. 3. Adjust the data of items **RCUT**, **GCUT**, and **BCUT** to "40H". 4. Press the -/-- button on Remote. (Y-MUTE : ON) 5. Gradually rotate R, G and B screen volume of FOCUS PAC clockwise or counterclockwise until the raster appears slightly on the CRT through the each lens, and leave them. (Lookin to the lens in order to check the raster.) 6. Press the -/-- button on Remote. (Return to Normal Picture) 7. Press the -⊖ button on Remote, and select the Black and White pattern. 8. Adjust the data of items **RCUT**, **GCUT** and **BCUT** for proper white-balanced picture in low light area. 9. Adjust the data of items **RDRV** and **BDRV** for proper white-balanced picture in high light area. 10. Check the white balance in both low and high light areas. If necessary, perform again steps from 8 to 9.

Items	Names	Settings	Input signals	Measuring points	Adjusting methods	Adjusting standards
SCNT	Sub-contrast	Picture mode 1 Audio system: I	Sub-bright signal (PAL-I signal)	TP03 SIGNAL unit	1) Adjust amplitude from the pedestal level up to the white peak	1.0 ± 0.05Vpp
BRTC	Sub-bright center	Picture mode 1	Sub-bright signal	Screen adjustment	1) Adjust the number of black collapsed lines of sub-bright signals 2) Adjust after adjusting W/B, SCNT	4 ± 1.5 lines
COLP	Sub-color center PAL	Picture mode 1	Sub-bright signal (PAL)	TP02 SIGNAL unit	1) Adjust the amplitude of the color bar 2) Adjust the P-P value of the upper half	0.54 ± 0.05Vpp
COLS	Sub-color center SECAM	Picture mode 1	SECAM color bar	TP02 SIGNAL unit	1) Adjust the amplitude of the color bar (Apply picture mute at the time of adjustment) 2) Adjust the P-P value of the upper half	0.65 ± 0.05Vop
SRY	SECAM R-Y Black level		SECAM color bar	TP02 SIGNAL unit	1) Adjust so that the level of black and white signal part can be aligned with the level of H.BLK	0 ± 10mV
SBY	SECAM B-Y Black level		SECAM color bar	TP01 SIGNAL unit	1) Adjust so that the level of black and white signal part can be aligned with the level of H.BLK	0 ± 10mV
Screen adjustment	Screen	Factory screen adjusting mode		CRT tubular screen	1) Darken the environment as much as possible 2) Set to factory-set screen adjusting MODE (Y mute, DRV.CUT=40H) 3) Directly observe the surface of Cathode Ray Tube and adjust the screen VR to the point that starts lighting 4) Make above-mentioned adjustments for each tube of G, R, and B.	Point that starts lighting
Focus adjustment .	Focus	Picture mode 1	Retma signal (PAL-I) Crosshatch signal	Screen adjustment	1) Adjust to the best position by repeating electrical focus and optical focus adjustments 2) Use the jig and shade the CRT except the axes under adjustment 3) Make above-mentioned adjustments for each tube of G, R, and B.	For details, refer to [focus adjusting method] introduced in the next page.
RDRV BDRV	Bright part W/B			Screen adjustment	1) Adjust the color temperature of the bright part (103cd/m^2).	8750k-0.002uv
RCUT BCUT	Dark part W/B			Screen adjustment	1) Adjust the color temperature of the dark part (17cd/m^2)	8750k-0.002uv
VCEN	Voltage Adjustment	Picture mode 1	Phillips Pattern (PAL-1)	Between TP-V and TP-G	1) Connect a digital voltmeter between TP-V and TP-G and adjust it to 10 ± 10mV by VCEN data TP-V ● — + Digital voltmeter TP-G ● — −	10 ± 10mV

Items	Names	Settings	Input signals	Measuring points	Adjusting methods	Adjusting standards
Adjustment of screen position		Picture mode 1	Phillips Pattern (PAL-I)	Screen adjustment	1) Adjust the vertical and horizontal screen positions using the centering magnet so that the center cross mark of the dummy screen and the cross mark of the Phillips pattern can overlap precisely. This will be carried out individually for the tubes of R, G, and B. (Caution) Do not move HPOS and VPOS data.	
HIT VLIN	Vertical amplitude adjustment	Picture mode 1	Phillips Pattern (PAL-I)	Screen adjustment	1) Shorten the vertical amplitude by HIT data in the beginning until up-and-down flags appear on the screen. 2) Subsequently, lengthen the vertical amplitude by HIT data until either up or down flag end is aligned with the screen end.	
WID	Horizontal amplitude adjustment	Picture mode 1	Phillips Pattern (PAL-I)	Screen adjustment	1) At the first, lower the HIT data and shorten the amplitude up to a posotion where the left-and-right flags completely appear on the screen. 2) Lengthen the horizontal amplitude with the WID data so that the total number of marks will come to 8 (4 each on left and right	8 ± 1 marks
HIT	Vertical amplitude adjustment	Picture mode 1 16:9 mode	Phillips Pattern (PAL-I)	Screen adjustment	1) Make adjustments so that the upper part of the screen will come in contact with the 16:9 frame.	
NHIT NLIN	Vertical amplitude adjustment NTSC	Picture mode 1	Monnoscope signals NTSC LEADER-435B	Screen adjustment	1) The first mark on the upper side of the screen is to be hidden by the mask. 2) The up-and down balance is to be kept properly.	
NWID	Vertical amplitude adjustment NTSC	Picture mode 1	Monnoscope signals NTSC LEADER-435B	Screen adjustment	1) Adjust the 2.5 line left register mark to the left screen end.	
NHIT	Vertical amplitud adjustment NTSC	Picture mode 1 16:9 mode	Monnoscope signals NTSC LEADER-435B	Screen	1) Make adjustments so that that the upper part of the screen will come in contact with the 16:9 frame.	

Adjustment items	Adjusting methods
Focus adjustment	(Conditions) - User adjustment : Dynamic mode, Cinema mode - To be performed after centering magnet adjustment. - Signal : Lens: R .... Retma Pattern (PAL) G .... Crosshatch (PAL) B .... Crosshatch (PAL) Electrical focus : R .... Retma Pattern (PAL) G .... Crosshatch (PAL) B .... RetmaPattern (PAL) (Adjustment) 1. Common item 1) Make coarse adjustments in advance on the lens focus and electrical focus of each R, G, and B tube. 2. G adjustment 1) Set to the G monochrome by lens cap. 2) Receive the image of crosshatch. 3) Adjust the G electric focus. Adjust the G electrical focus by the focus volume of focus block (Z410) so that the screen center will come to optimum focus. (Although the G electrical focus is to be adjusted to allow the scanning lines in the center of the screen to be seen most clealy, if G alignment and astigmatism are inferior with the appearance of vertical and horizontal flares in the center of and around the screen and if the lines become thicker, adjust to the best point observing the entire screen.) 4) Adjust the G lens focus. Watch the horizon of the left and right both ends of the screen (the range of circle with 100mm diameter shown in the following sketch), make optimum adjustments on the G lens focus, and check that the focus balance on the right and left is satisfactory. 5) Repeat 3, 4, and attempt to further improve the focus quality.

Adjustment items	Adjusting methods
Focus adjustment	(Balance check of left-and-right G lens focus) (1) Adjust the G lens focus best by crosshatch of the left end (or the right end). (2) Check the focus of the right end (orthe left end). If the balance of the left and right lens focus (flare) is different, part it and adjust to the medium quality. Check the environment and confirm that the focus quality (including flare) is within a tolerable range.  Concerning items 1), 2), 3), and 5) of G adjustment, these are common to the ones on the previous page. 3. R adjustment 1) Set to the R monochrome by lens cap. 2) Receive the image of Retma pattern. 3) Adjust the R electrical focus. Adjust by focus volume of the focus block (Z410) so that the screen center will come to optimum focus. 4) Adjust the R lens focus. Adjust so that the screen center will become the best. 5) Repeat 3, 4, and attempt to further improve the focus quality.

Adjustment items	Adjusting methods
Focus adjustment	4. B adjustment  1) Set to the B monochrome by lens cap. 2) Receive the image of Retma pattern. 3) Adjust the B electrical focus. Adjust the B electrical focus by using the focus volume of the focus block (Z410) so that the scanning lines at 2/3 L from the center can be seen most clearly. 4) Receive the image of crosshatch pattern. 5) Adjust the B lens focus. Pay attention to the border of the blue line and the black (background) in the vicinity of the screen center. First of all, make coarse adjustments of the lens, and move the lens adjusting screw to the right at the point being considered as the best focus. Then, the lines of the border become clear. Check and confirm under the circumstance that a flare appears. On the contrary, if the lens adjusting screw is moved to the left from the situation, the flare will disappear, and at this point you will find a point from which the borderline itself begins to go out of focus. Adjust to the very point where the focus begins to go out.

CONVERGENCE ADJUSTMENT

1. SCREEN ADJUSTMENT

The adjustment is carried out on four screens; Wide, S.Live, Cinema, S.title in both PAL and NTSC modes. When making the adjustments, feed an external signal to make an synchronization.

Note:

The convergence circuit is a circuit to eliminate screen distortion and can not make a drastic correction such as to correct entire screen size. An excessive correction may actuate the protection circuit. So a care will be necessary.

Before proceeding to the adjustment for each screen, always perform the adjustments for vertical size (HIT) and horizontal size (WID) with the main deflection data changed.

The menu order is 1~7 .... when the vertical sync is 50 Hz. (In this case, item 8~12 are not displayed)

The menu order is 8~12 .... when the vertical sync is 60 Hz. (In this case, item 1~7 are not displayed)

1-1. Entering the Adjustment Menu

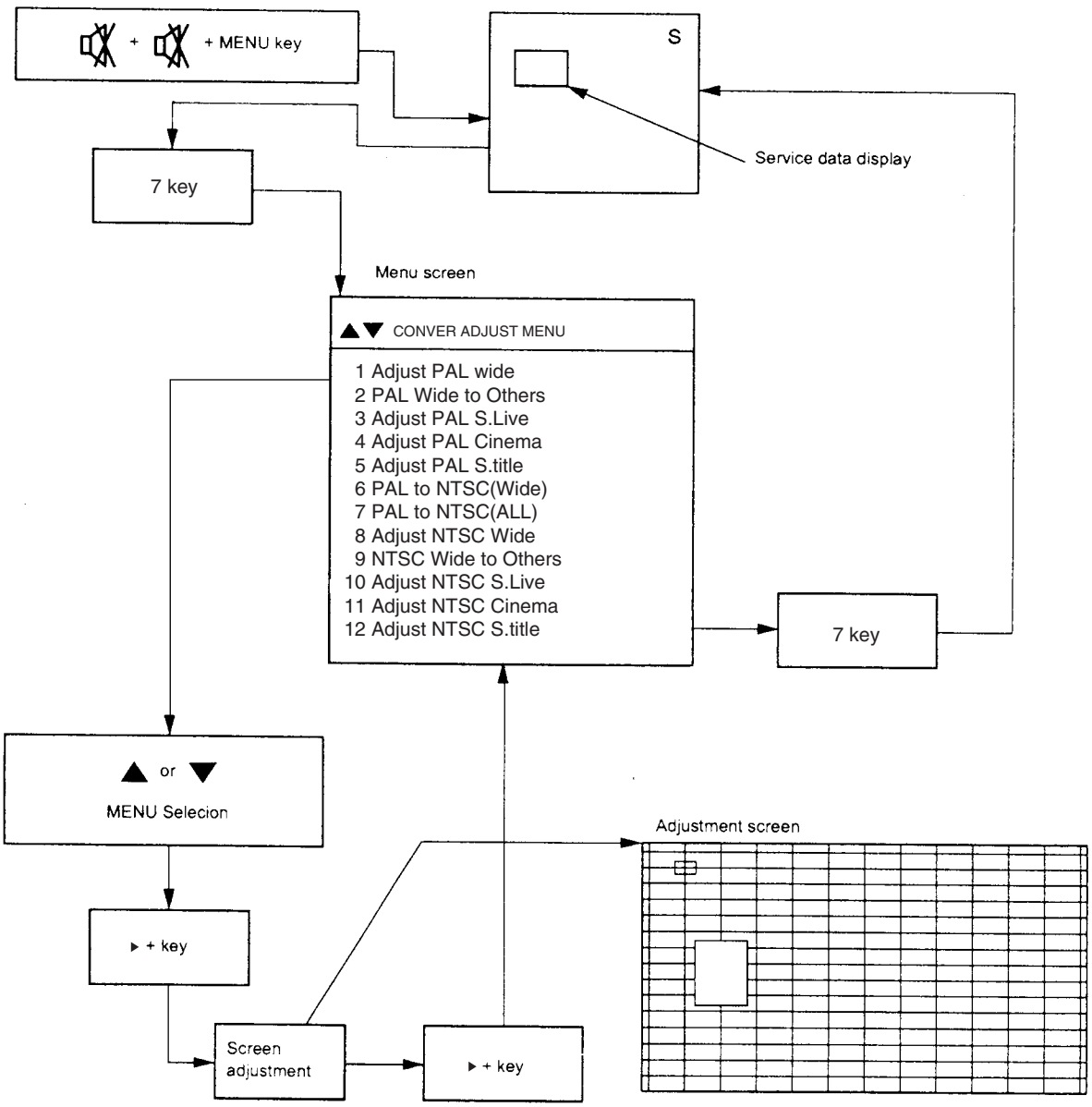
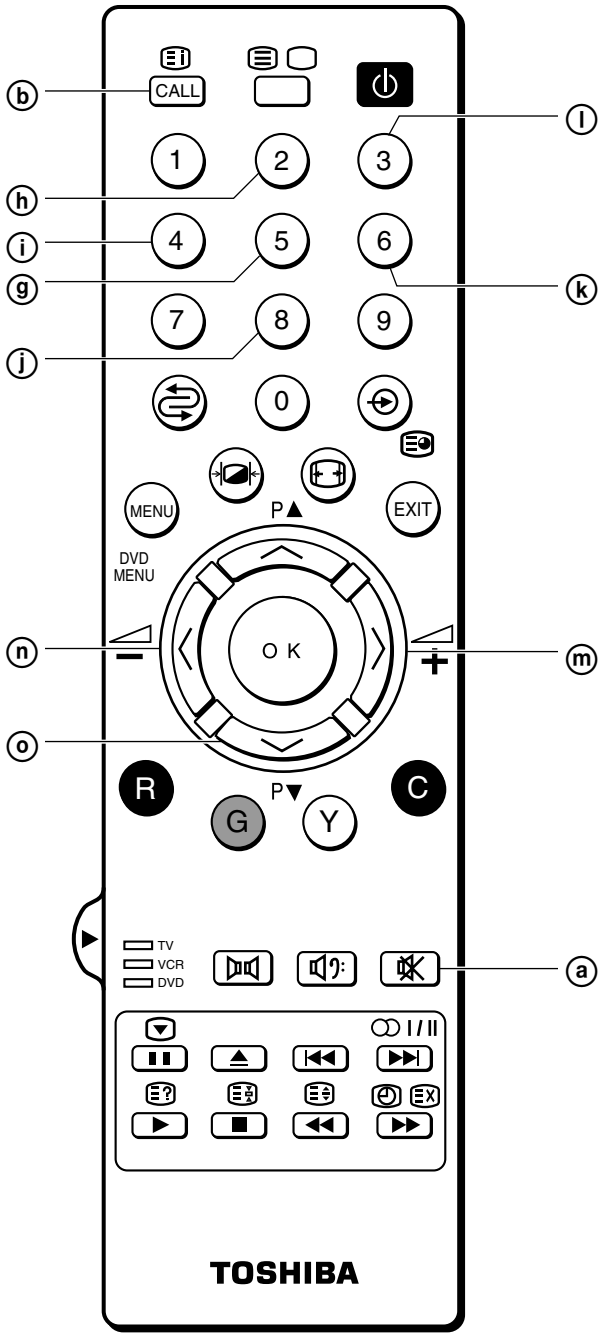


Fig. 1

1-2. Remote Control Key



ⓐ 🔇 key ..... Push this key twice and the set console menu key to enter the service mode.
ⓑ F key ..... Push this key and 7 key to enter and cancel the convergence menu.
ⓖ 5 key ..... Cursor shift / data change mode change-over.
ⓗ 2 key ..... Cursor up / adjusting point up.
ⓘ 4 key ..... Cursor left / adjusting point left
ⓙ 8 key ..... Cursor down / adjusting point down
ⓚ 6 key ..... Cursor right / adjusting point right
ⓛ 3 key ..... Cursor colour change (Adjusting colour selection).
ⓜ ▶ key ..... Execution key on convergence menu.
ⓝ ▲ key ..... Up key on convergence menu.
ⓞ ▼ key ..... Down key on convergence menu.

Fig. 2

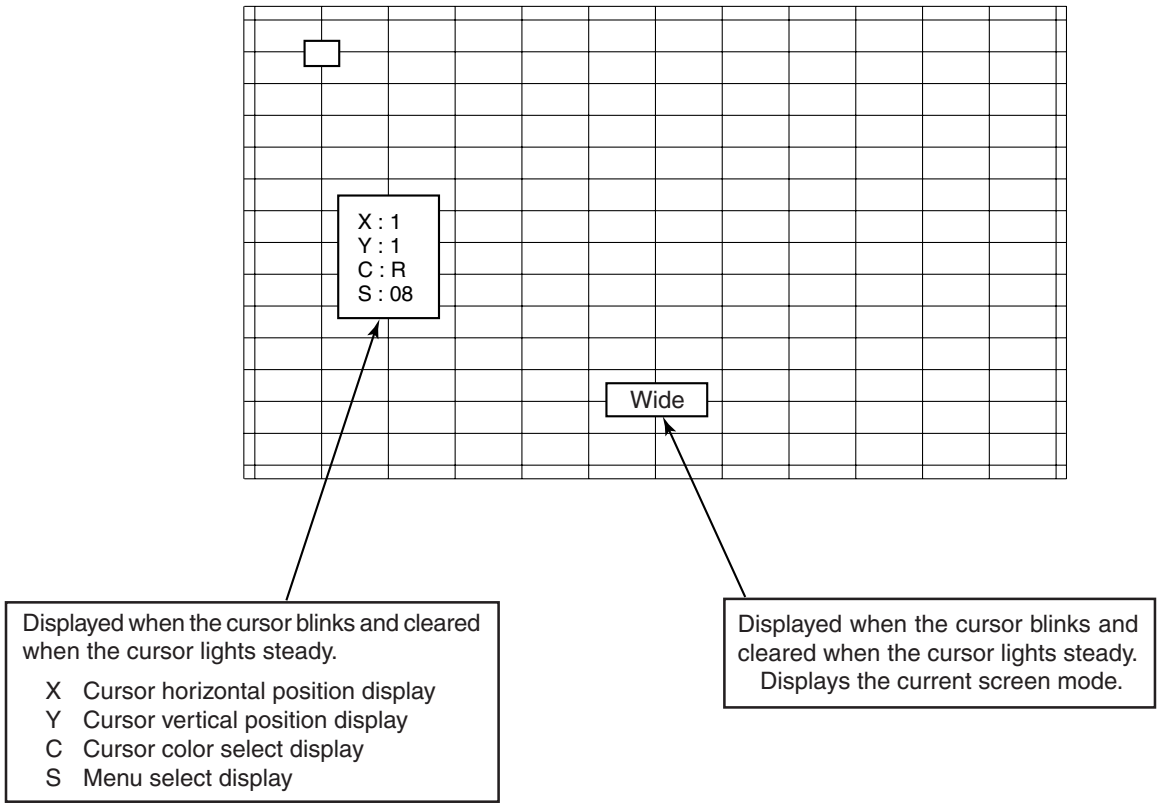
1-3. Adjusting Screen

1) Adjusting menu

NO	Item	Description
1	Adjust PAL Wide	Used for manual adjustment of the Wide/4:3 screen in the PAL mode. Returns to the original screen data screen before data conversion, explained below.
2	PAL Wide to others	Automatically saves approximate supplementary data for the other PAL screens based on the PAL Wide/4:3 screen data. First, the PAL Wide/4:3 screen data are converted to Super Live and the values are saved. Next, the data are converted to Cinema and the values are saved. Finally, the data are converted to Subtitle and the values are saved, and then the operation ends. Manually check the other screen modes as described below and make corrections if distortion, etc., is present. Please be aware that all PAL screens are re-adjusted when this menu is selected and executed.
3	Adjust PAL S.Live	Used for manual adjustment of the PAL Super Live screen. Select this mode for Super Live screen color matching and distortion adjustment. Use the specified dimensions when adjusting.
4	Adjust PAL Cinema	Used for manual adjustment of the PAL Cinema screen. Select this mode for Cinema screen color matching and distortion adjustment. Use the specified dimensions when adjusting.
5	Adjust PAL S.title	Used for manual adjustment of the PAL S.title screen. Select this mode for S.title screen color matching and distortion adjustment. Use the specified dimensions when adjusting.
6	PAL to NTSC (Wide)	PAL Wide/4:3 screen data is calculated, converted to NTSC Wide/4:3 approximate data and saved. To assure accurate adjustments, select the manual mode explained below and check, then apply color matching and distortion adjustments.
7	PAL to NTSC (All)	Data for all PAL screens is converted to approximate data for the NTSC screens and saved. To assure accurate adjustments, select the manual mode explained below and check, then apply color matching and distortion adjustments.
8	Adjust NTSC Wide	Used for manual adjustment of the NTSC Wide/4:3 screen. Select this mode for Wide/4:3 screen color matching and distortion adjustment. Use the specified dimensions when adjusting.
9	NTSC Wide to others	Approximate supplementary data for the other NTSC screens is automatically saved based on the NTSC Wide/4:3 screen data. First, the NTSC Wide/4:3 screen data are converted to Super Live and the values are saved. Next, the data are converted to Cinema and the values are saved. Finally, the data are converted to Subtitle and the values are saved, and then the operation ends. Manually check the other screen modes as described below and make corrections if distortion, etc., is present. Please be aware that all NTSC screens are re-adjusted when this menu is selected and executed.

NO	Item	Description
10	Adjust NTSC S.Live	Used for manual adjustment of the NTSC Super Live screen. Select this mode for Super Live screen color matching and distortion adjustment. Use the specified dimensions when adjusting.
11	Adjust NTSC Cinema	Used for manual adjustment of the NTSC Cinema screen. Select this mode for Cinema screen color matching and distortion adjustment. Use the specified dimensions when adjusting.
12	Adjust NTSC S.title	Used for manual adjustment of the NTSC Subtitle screen. Select this mode for Subtitle screen color matching and distortion adjustment. Use the specified dimensions when adjusting.

2) Adjustment Screen


X : 1
Y : 1
C : R
S : 08
Wide
Displayed when the cursor blinks and cleared when the cursor lights steady.
X Cursor horizontal position display
Y Cursor vertical position display
C Cursor color select display
S Menu select display
Displayed when the cursor blinks and cleared when the cursor lights steady.
Displays the current screen mode.

3) Adjustment Sequence

When the initial screen opens, X = 1, Y = 1, C = R and S = [Select Menu] are displayed as the defaults. The cursor can now be moved up, down, left and right using the (2), (8), (4) and (6) keys of the remote control. Select the desired adjustment and press the (5) key; the cursor will light steady and the screen display will be cleared. Again press the (2), (8), (4) and (6) keys of the remote control to adjust the shape of the screen. When adjustment has been completed, press the (+) key to return to the Adjustment Menu. When all of the screen adjustments have been completed, turn off the main power supply of the set to reset the menu.

2. Case Study

In many cases, color matching problems can be solved by returning the HIT and WID data for main deflection to the initial adjustment values. Convergence cannot be re-adjusted in the following cases.

2-1 When the CRT has been replaced

Main deflection re-adjustment and color matching are necessary when the CRT has been replaced. Use the following procedure.

1. Replace the blue and red CRTs.
2. Perform the blue and red yoke horizontal adjustments in relation to the green CRT. Press the yokes and speed modulation coils + alignments onto the CRTs and fasten after making sure that there are no gaps.
3. Adjust the blue and red alignments (refer to the detailed alignment adjustment item).
4. Use centering magnets to center the blue and red CRTs in relation to the green CRT.
5. Adjust the main deflection HIT and WID data, using the most accurate location in relation to the green as data.
6. Use convergence to match the colors for each screen. Green will not work at this time.
7. When the convergence adjustments have been completed for all screens, then replace the green CRT.

Repeat the procedures in steps 2 - 5 for the green CRT but this time use convergence to match the colors using red and blue as reference.

2-2 When replacing the convergence unit

Generally, all of the screens must be re-adjusted when the convergence unit is replaced, but the process can be greatly shortened by using the following method.

1. Replace the memory (Q711, Q712, Q713) of the new unit with the memory (Q711, Q712, Q713) of the defective unit. This makes it possible to quickly reproduce the previous screen status when installed in the set.
2. Install the new unit with the old memory in the set and turn on the power. The entire screen will move linearly in either the vertical or horizontal direction.
3. Use centering magnets to re-adjust the green, red and blue centers.
4. There is possibility of color mismatching or differences in screen size when the various screens are checked. In such case, adjust the main deflection and apply a slight amount of convergence color matching.

2-3 When none of the above cases apply (rare case)

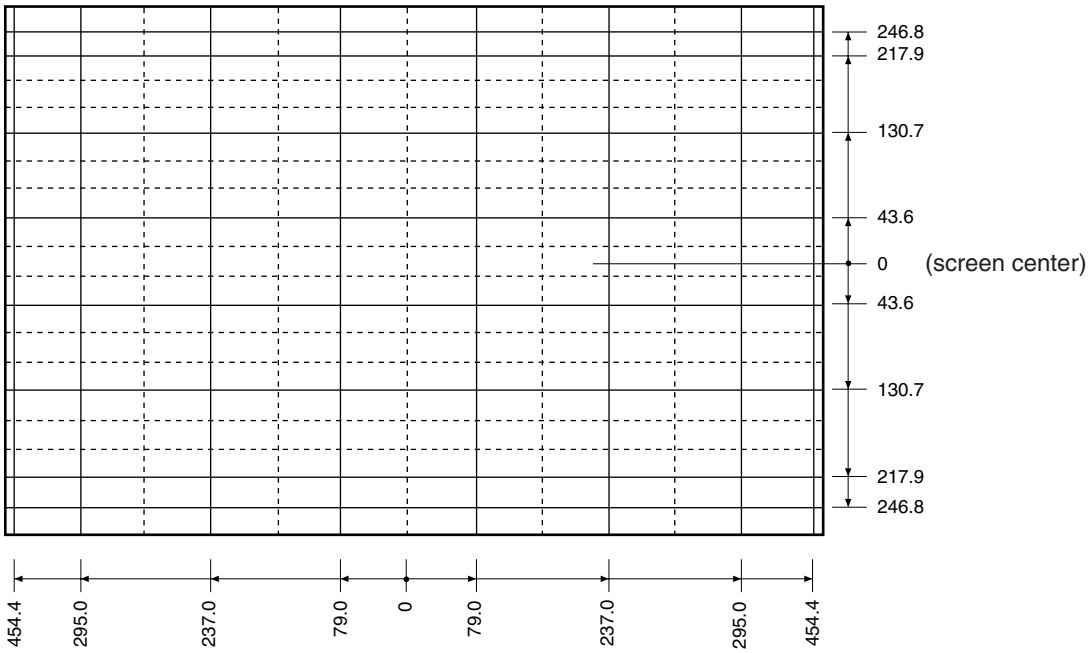
An unexpected situation or major operational error, etc., could be considered but it is recommended that all screens be matched starting from the beginning. If the initial positions of the centering magnets are unknown, disconnect the connectors for the convergence sub-yoke outputs one at a time, adjust the CRT centering and then start the following adjustments.

1. Make sure that there is plenty of room for the static cross convergence to be moved left, right, up and down. If sufficient space is not available, move to an appropriate location and then re-adjust the centering.
2. Enter the convergence adjustment mode and call out the menu. (Leave the PAL signal connected.)
3. Select 1. Adjust PAL Wide and adjust the PAL mode Wide/4:3 screen manually in accordance with the dimension diagram.
4. When the Wide/4:3 screen adjustment has been completed, return to the Main Menu and select 2. PAL Wide to others. The screen will change automatically and the Wide, Cinema and Subtitle screens will be created automatically.
5. Next, select 3. Adjust PAL S.Live and mainly adjust in the horizontal direction in accordance with the dimension diagram.
6. Next, select 4. Adjust PAL Cinema and fine adjust to remove any Cinema screen distortion.
7. Next, select 5. Adjust PAL Subtitle and fine adjust to remove any Subtitle screen distortion.
8. Next, select 7. PAL to NTSC (ALL), then calculate and copy the data for all PAL screens in the NTSC mode. At this time, the calculations and screen shape changes will be performed automatically and the NTSC screen data corresponding to the PAL screens will be transferred.
9. Select in sequence 8. Adjust NTSC Wide, 10. Adjust NTSC S.Live, 11. Adjust NTSC Cinema and 12. Adjust NTSC Subtitle, check the respective NTSC screen modes and, if necessary, adjust for any distortion.

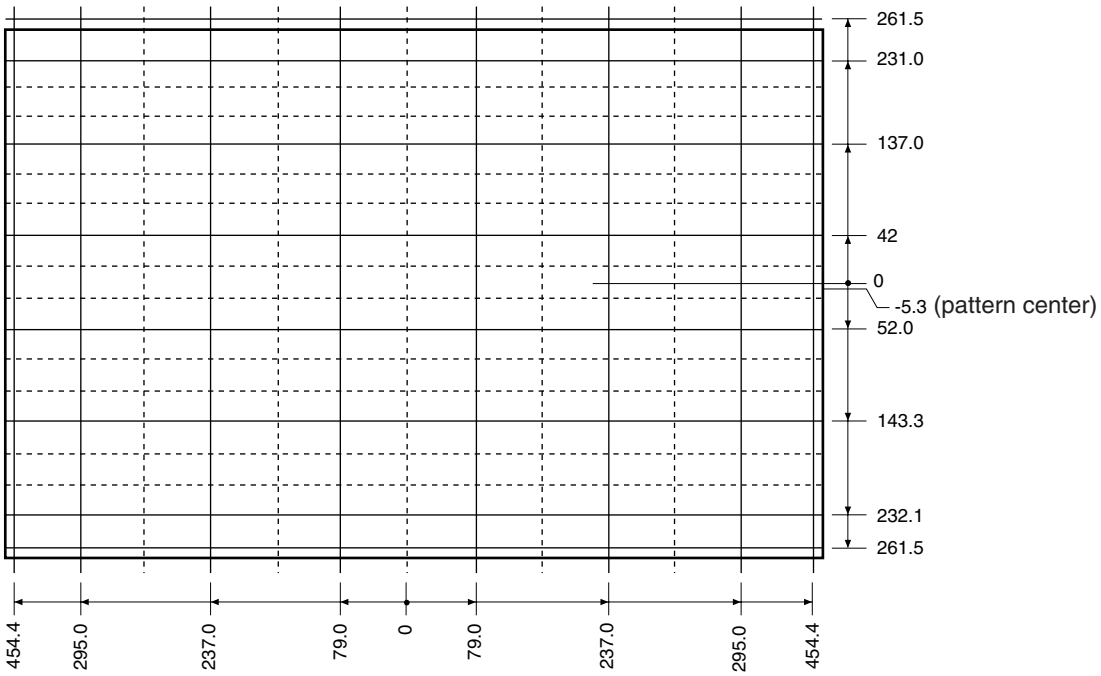
All of the screens can be adjusted with the above process but make every effort not to change the factory data unless absolutely necessary. Try not to change the convergence data any more than necessary.

3 Screen adjustment dimensions

3-1 WIDE/4:3 (PAL mode)



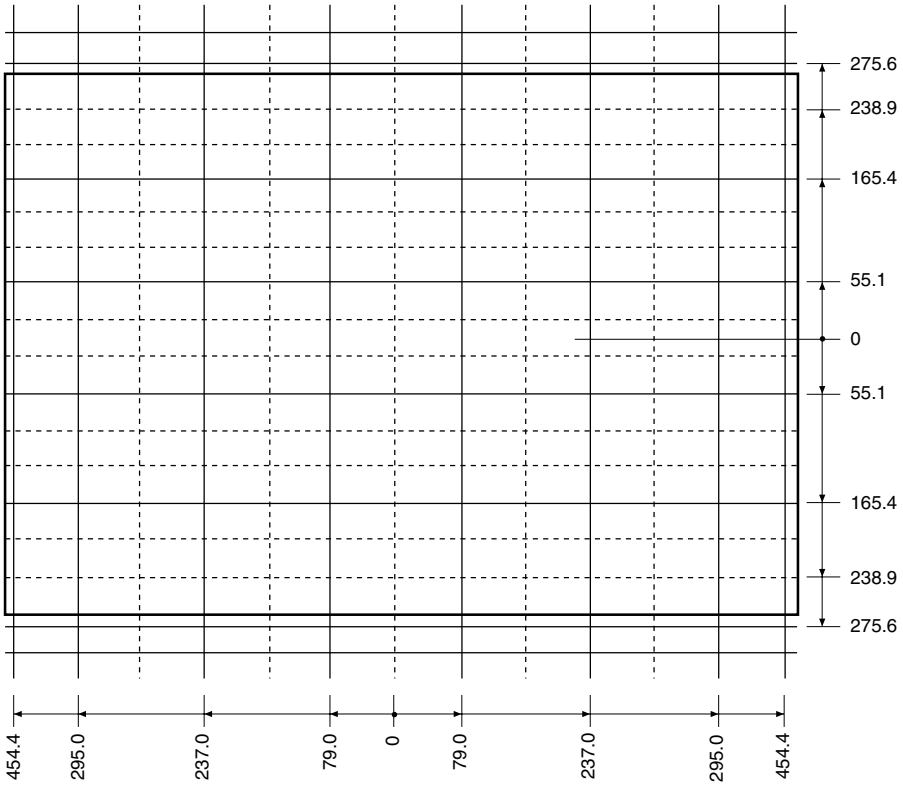
3-2 Super Wide (PAL mode)



Caution: Do not perform the VLIN adjustment.

3-3 Cinema (PAL mode)

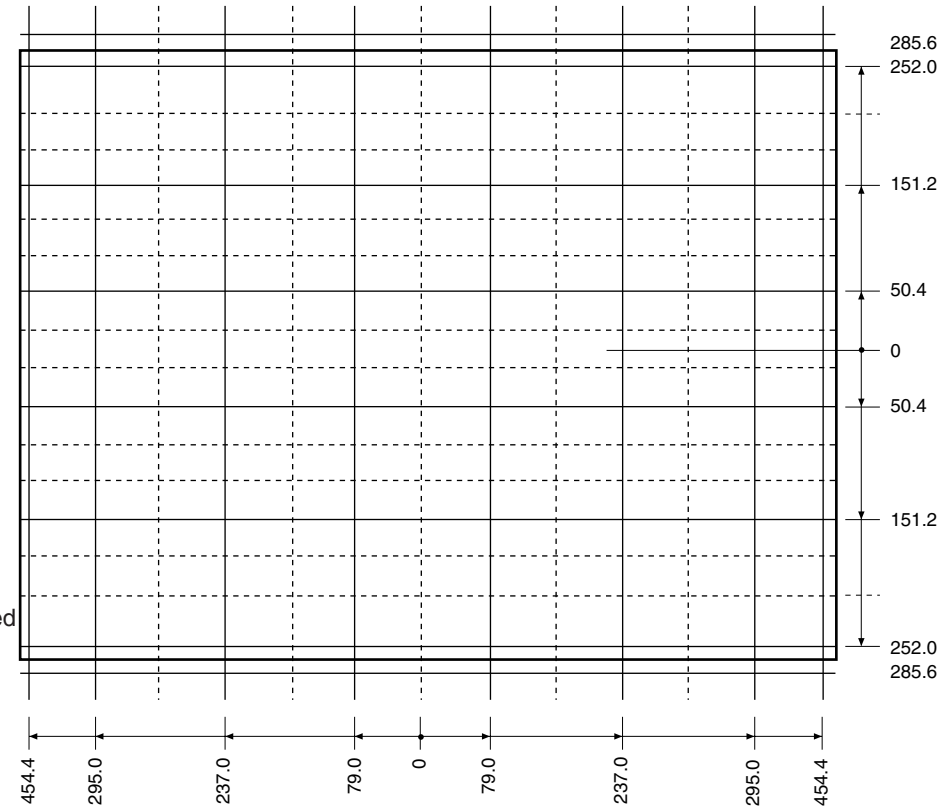
Note: The cursor will move outside the screen limits in the Cinema mode; therefore, be careful to consider the position of the cursor displayed on the screen when making adjustments.



3-4 Subtitle (PAL mode)

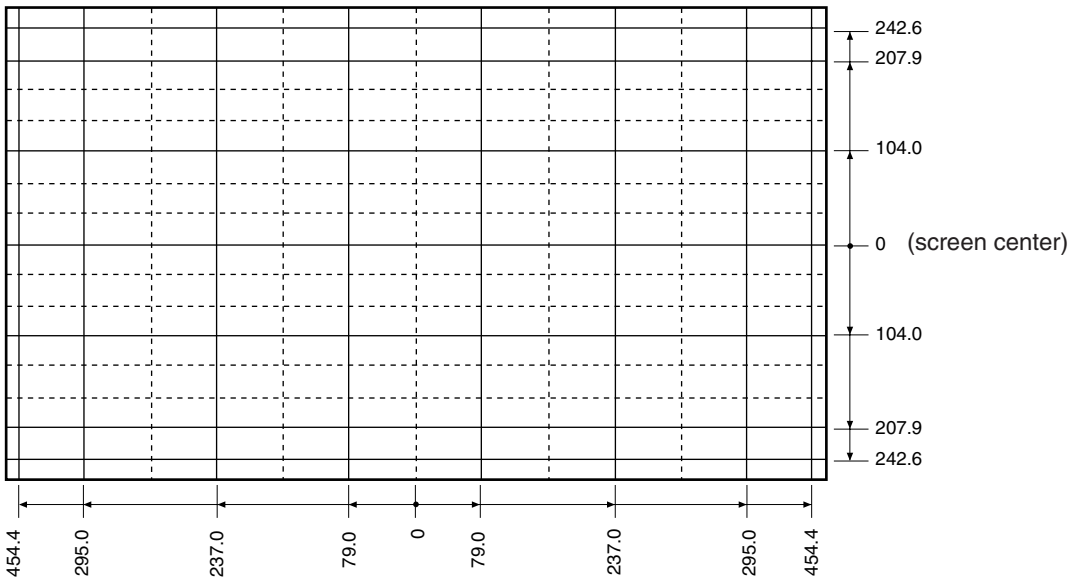
Note: The cursor will move outside the screen limits in the Subtitle mode; therefore, be careful to consider the position of the cursor displayed on the screen when making adjustments.

Note: Please be aware that the Subtitle screen convergence pattern center is located at the center of the screen but the image center is located approximately 13mm above that.

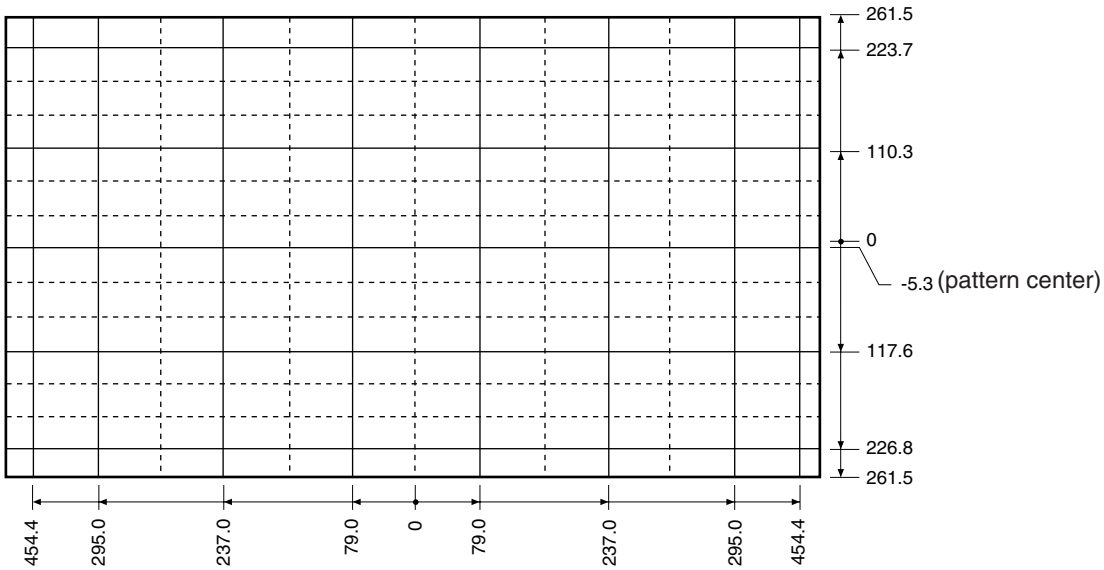


Screen limit changed

3-5 WIDE/4:3 (NTSC mode)



3-6 Super Live (NTSC mode)

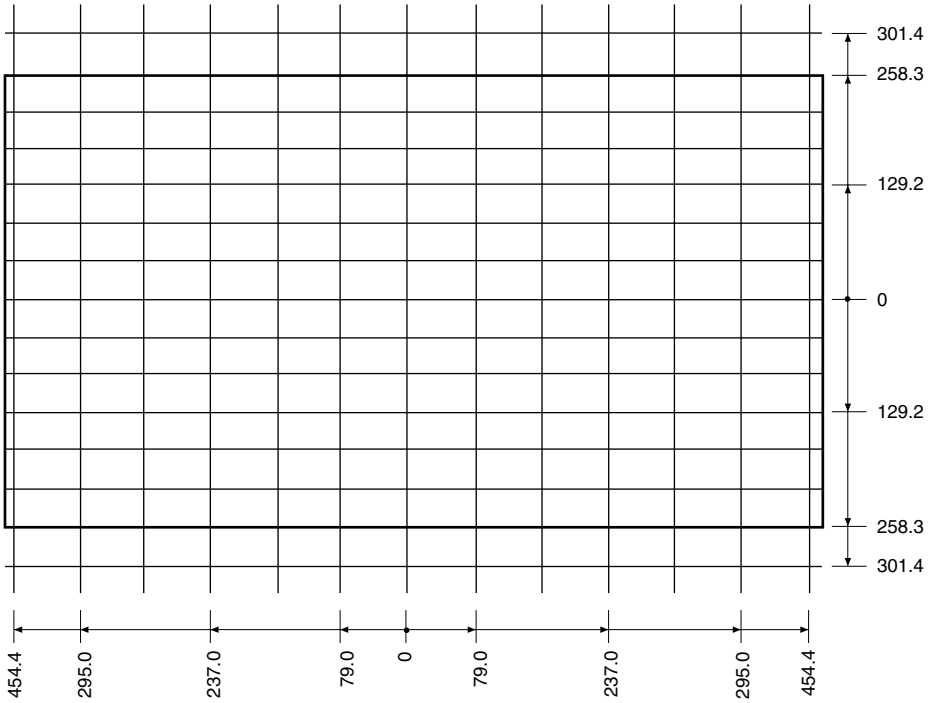


Caution: Do not perform the VLIN adjustment.

3-7 Cinema (NTSC mode)

Note: The cursor will move outside the screen limits in the Cinema mode; therefore, be careful to consider the position of the cursor displayed on the screen when making adjustments.

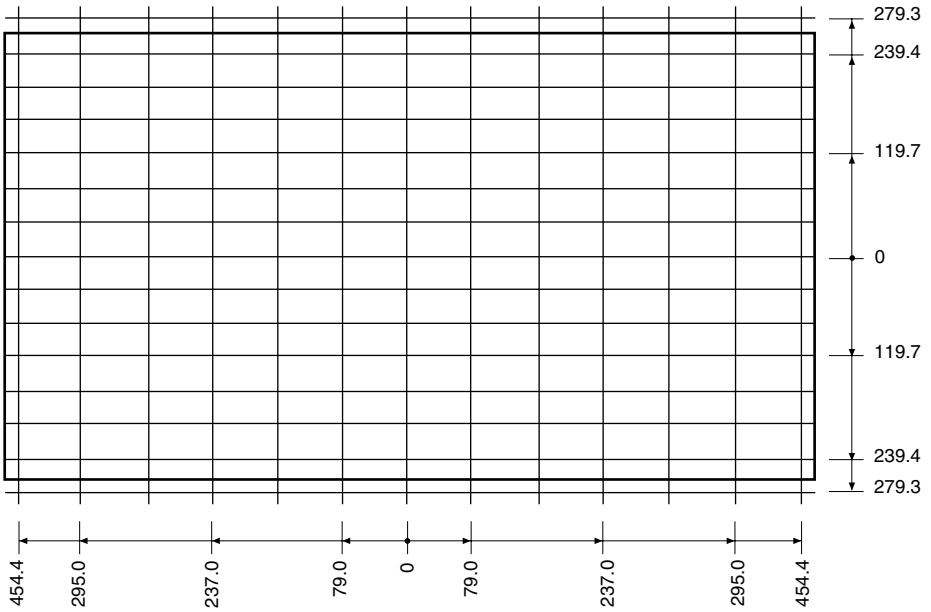
Note: Please be aware that the Cinema screen convergence pattern center is located at the center of the screen but the image center is located approximately 13mm above that.



3-8 Subtitle (NTSC mode)

Note: The cursor will move outside the screen limits in the Subtitle mode; therefore, be careful to consider the position of the cursor displayed on the screen when making adjustments.

Note: Please be aware that the Subtitle screen convergence pattern center is located at the center of the screen but the image center is located approximately 32mm above that.



SCREEN AND MIRROR ALIGNMENTS

ASSEMBLING AND MOUNTING OF FRONT SCREEN

* Please refer to MECHANICAL DISASSEMBLY page 35.

CLEANING OF LENS AND MIRROR

CAUTION : Do not hold the optical system parts (lens and mirror) with bare hand to avoid finger-prints on the surface of those parts.

HOW TO CLEAN LENS AND MIRROR

1. Be sure to remove sand dust with an air brush, etc.
2. When it is stained slightly, breathe upon it and wipe away with the specified cleaning cloth.
   For other stains than the above, wipe the stains away with the specified cloth into which a cleaning liquid has been soaked.

Cleaning liquid ..... **LENS LUSTER** (Manufactured by Edmund Scientific Co.), etc.

HOW TO CLEAN SCREEN

When cleaning the screen, use a soft cloth so as not to damage the screen.

1. Wipe the stain away with a diluted neutral detergent soaked cloth.
2. Wipe the detergent away with a water soaked cloth.
3. Wipe the screen with a dry cloth to remove moisture on the screen.

Note : Absolutely do not use alcohol, benzine, thinner, etc. for cleaning in order not to wipe away the black print on the surface.

CIRCUIT CHECKS

HIGH VOLTAGE CHECK

CAUTION: There is no HIGH VOLTAGE ADJUSTMENT on this chassis. Checking should be done following the steps below.

1. Connect an accurate high voltage meter to the anode of the picture tube.
2. Turn on the receiver. Set the BRIGHTNESS and CONTRAST to minimum (zero beam current).
3. High voltage must be measured below (B) kV.

   Refer to table-1 for high voltage (B).
   (See SETTING & ADJUSTING DATA on page 31)
4. Vary the BRIGHTNESS to both extremes to be sure the high voltage does not exceed the limit under any conditions.

CAUTION:

When the following parts fail, check the High Voltage after replacing.

Location No.	Name	Name
T461	Flyback Trans.	TFB3091AD
C440	Capacitor	1500pF, ±3%
C443	Capacitor	4700pF, ±3%
C444	Capacitor	3900pF, ±3%
C467	Capacitor	12000pF, ±5%
C468	Capacitor	12000pF, ±5%

ANODE VOLTAGE MEASURING METHOD

CAUTION: Take extra precaution when measuring this high voltage. High voltages are also present in surrounding circuit boards (CRT DRIVE assembly, DEFLECTION assembly, and POWER SUPPLY assembly).

1. Disconnect the FBT anode cable as outlined below. Measure high voltage at the point where the cable enters the FBT.
2. Holding the rubber cover firmly, turn it counterclockwise and check that the lock has been disengaged. (See Fig. b on page 8.)
3. Determine the extent of the rubber cover before disconnecting the cable.
4. Pull straight up the anode cable to disconnect.
5. When reconnecting the cable, proceed in the reverse order.
   After reconnecting, tug on the cable to check that it is secure.

CHAPTER 2 SPECIFIC INFORMATIONS

SETTING & ADJUSTING DATA

【 SAFETY INSTRUCTIONS 】

		42PW33P
HIGH VOLTAGE AT ZERO BEAM:	(A)	33.3 kV
MAX HIGH VOLTAGE:	(B)	34.5 kV
AC VOLTAGE	(C)	220~240 V

Table-1

【 SERVICE MODE 】

ADJUSTING ITEMS AND DATAS IN THE SERVICE MODE:

Item	Adjustment	Reference data
RCUT	R CUTOFF (B/W)	40H
GCUT	G CUTOFF (B/W)	40H
BCUT	B CUTOFF (B/W)	40H
RDRV	R DRIVE	40H
BDRV	B DRIVE	40H
CNTX	SUB CONTRAST MAX	7FH
BRTC	SUB BRIGHT CEN	80H
COLC	SUB COLOR CEN NTSC	02H
TNTC	SUB TINT CEN	1EH
COLP	SUB COLOR CEN PAL	05H
COLS	SUB COLOR CEN SECAM	08H
COLD	SUB COLOR CEN DTV	3AH
SCNT	SUB CONTRAST	08H
SRY	SECAM R-Y	07H
SBY	SECAM B-Y	04H
HPOS	50Hz H-POSITION	14H

Item	Adjustment	Reference data
VPOS	V-POSITION	02H
HIT	HEIGHT	2EH
GMPS	V-POSITION (RASTER)	00H
VLIN	V-LINEARITY	0FH
VSC	V-S CORRECTION	10H
VPS	V-SHIFT	18H
VCP	V-COMPENSATION	0AH
WID	PICTURE WIDTH	2BH
PARA	E-W PARABOLA	1CH
CNR	E-W CORNER	08H
TRAP	TRAPEZIUM	10H
HCP	H-COMPENSATION	00H
VFC	V-F CORRECTION	00H
VCEN	V-POSITION (RASTER)	00H
OPT3	DESTINATION SEL	00H/00H

Table-2

【 DESIGN MODE 】

ADJUSTING ITEMS AND DATA IN THE DESIGN MODE:

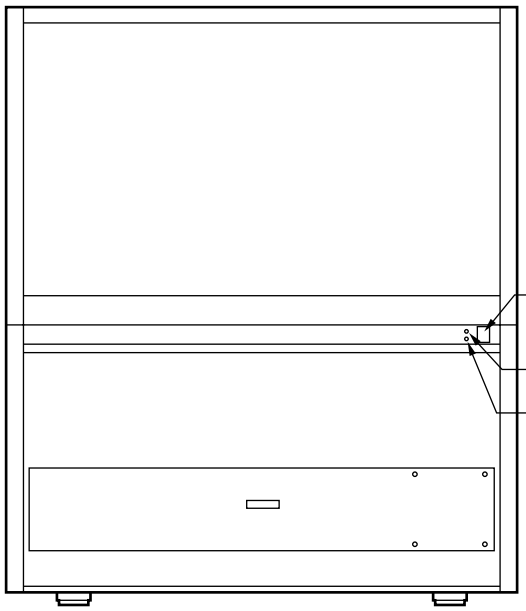
Item	Name of adjustment	Preset Data	42PW33P Initial	Remarks
OPT0	OPTION 0	80H	80H	
OPT1	OPTION 1	4CH	0CH	
OPT2	OPTION 2	20H	20H	
OPT4	OPTION 4	01H	01H	
OPT5	OPTION 5	00H	00H	

Table-3

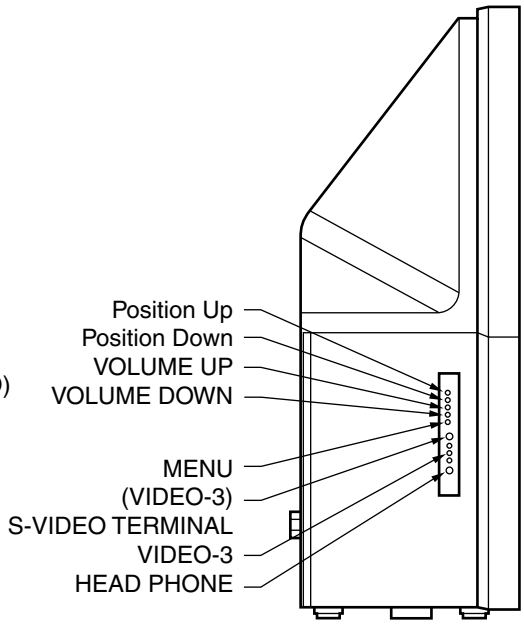
LOCATION OF CONTROLS

(Representative: 42PW33P)

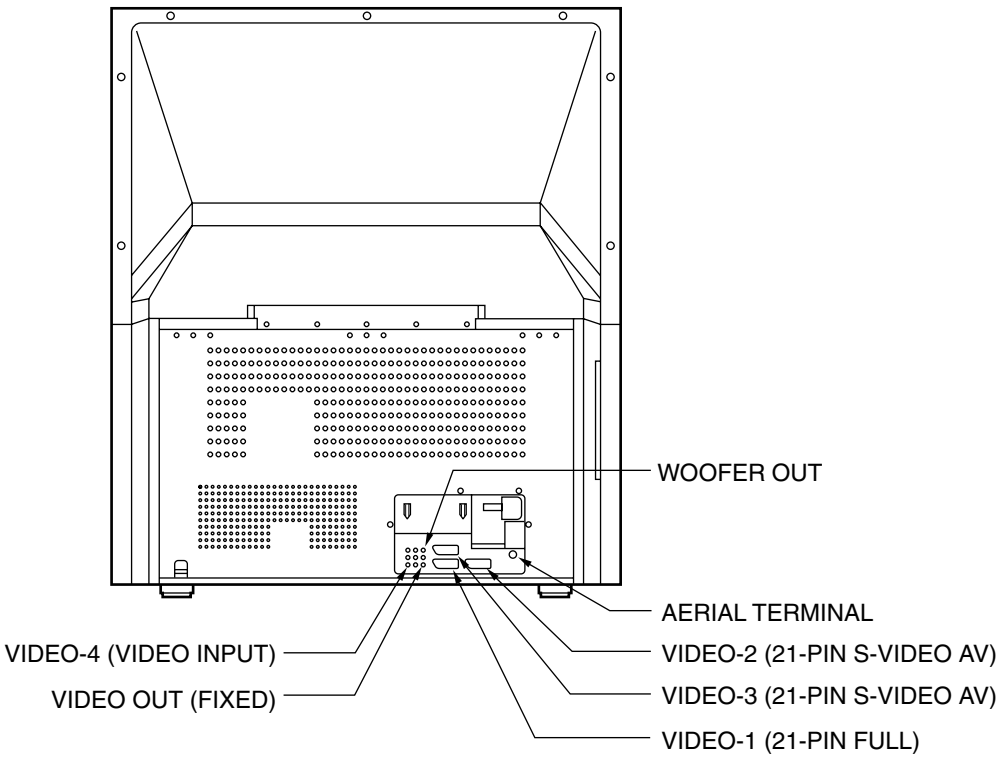
Front



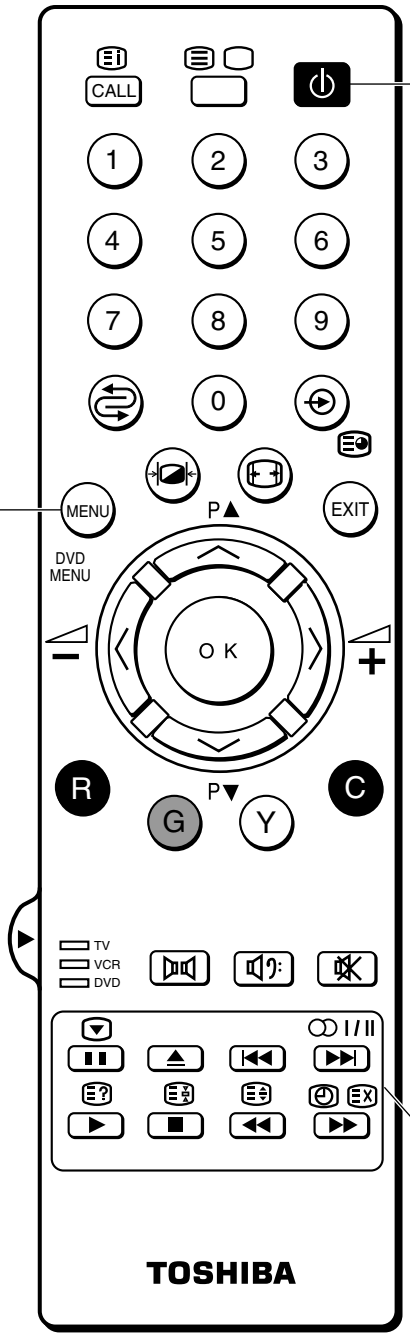
SIDE



Back



Remote Controller



Power Key: TV, VCR, DVD

MENU & Cursor: TV, DVD

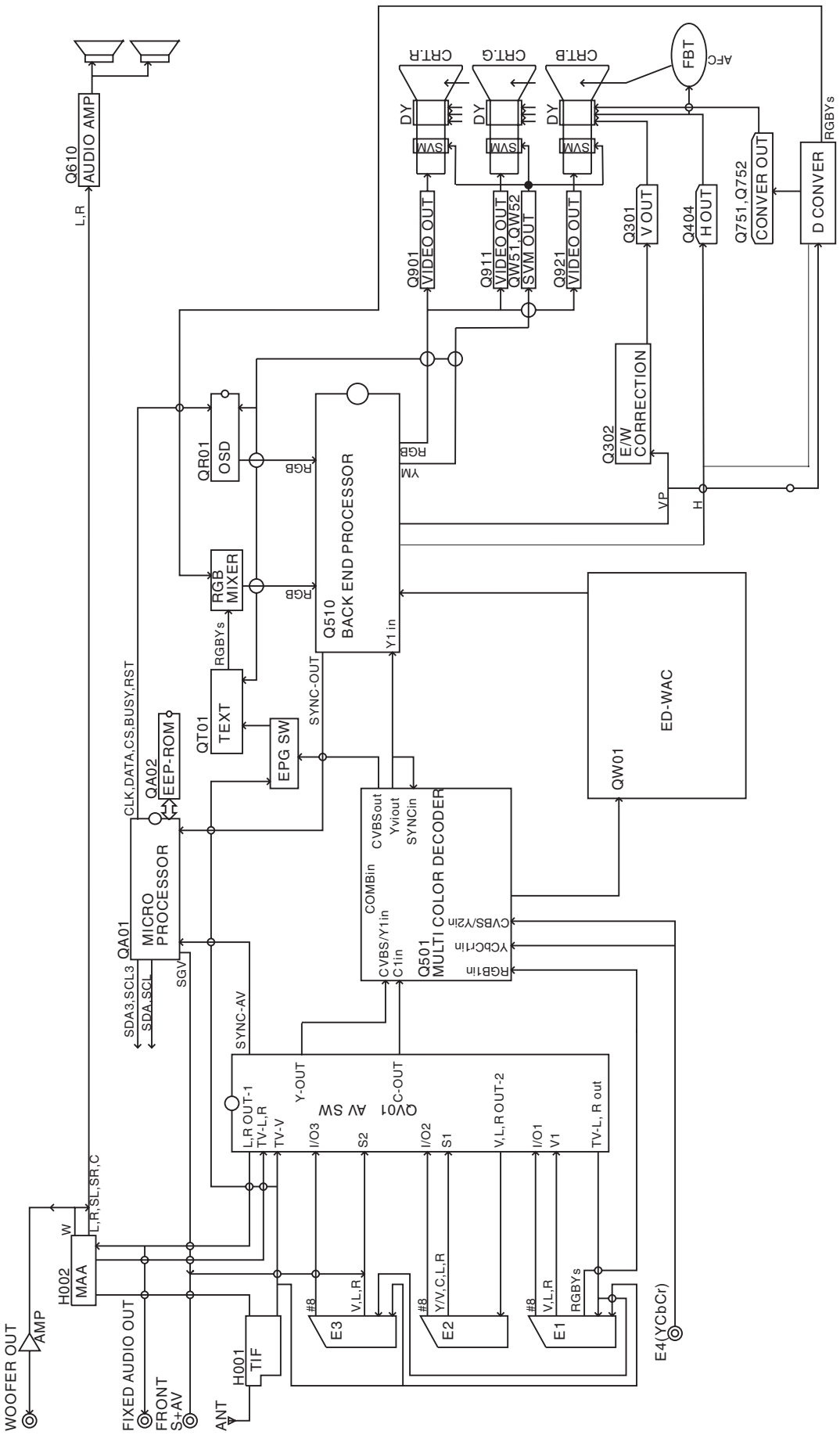
1. TEXT Sub Function
   <HOLD, REVEAL, F-T-B, TIME/TXCL, SUB PAGE>
   ---------- Only TV mode operation

2. VCR & DVD Common
   <Power, Play, Stop, Pause, Eject,
   FF, REV, Skip - FWD, Skip - REV>

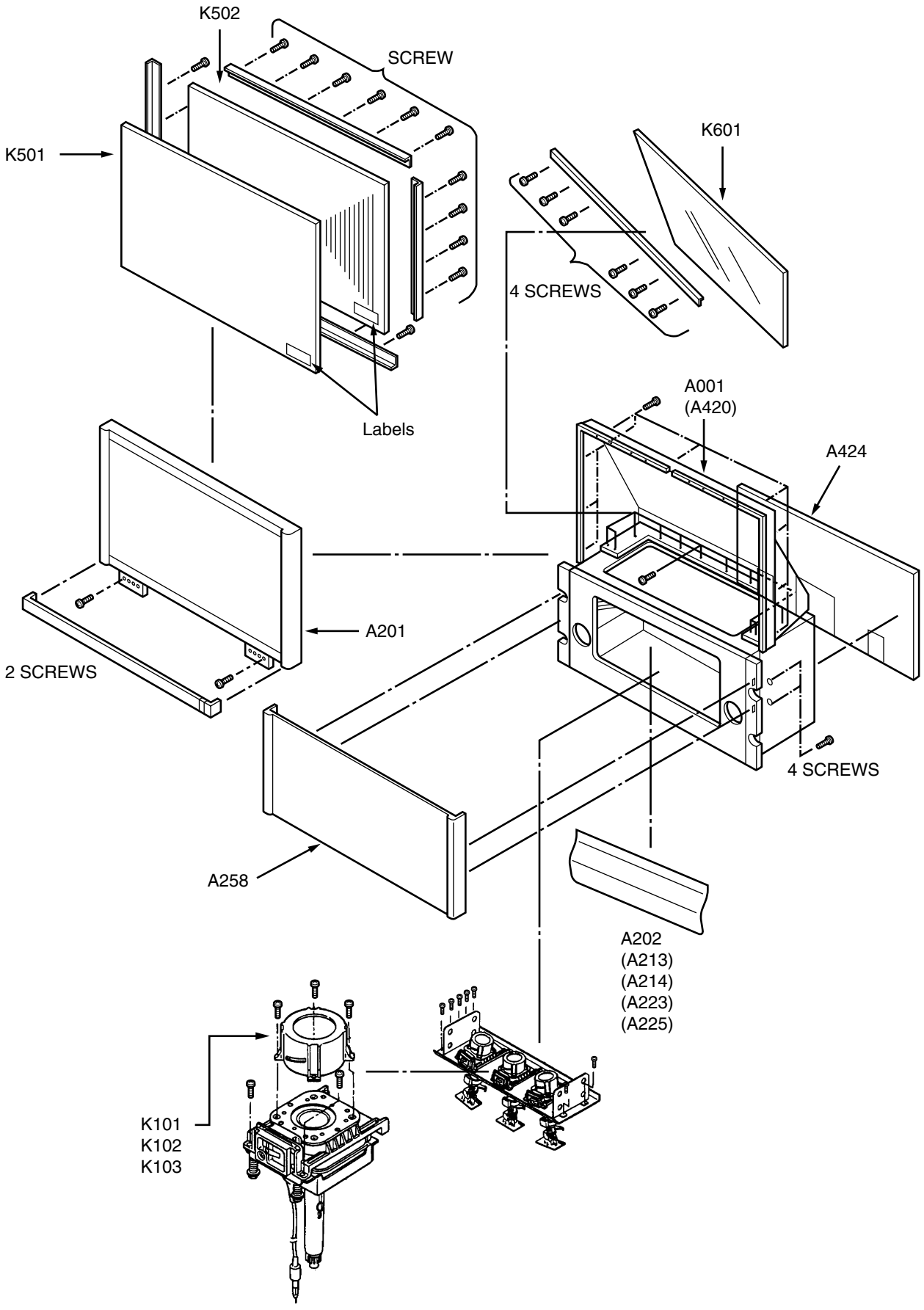
3. Key Name (by special characters)
   ---------- Power ON - Stanby
   ---------- TEXT INDEX
   ---------- TEXT / TV
   ---------- VIDEO INPUT
   ---------- SELECTABLE PICTURE
   ---------- MUTE
   ---------- VOLUME +, –
   ▲P▼ ---------- POSITION(CH.) Up/Down
   ---------- Size
   ---------- STILL PICTURE
   ---------- Sub Woofer
   ---------- SURROUND
   I/II ---------- Stereo Bilingual
   ---------- Previous Ch.
   i ---------- INFO.

Switched
TV Mode
VCR Mode
DVD Mode

CIRCUIT BLOCK DIAGRAM



MECHANICAL DISASSEMBLY (For 42PW33P)



CHASSIS AND CABINET REPLACEMENT PARTS LIST

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE . Do not degrade the safety of the receiver through improper servicing.

NOTICE:
- *The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.*
- *The PC board assembly with ⋆ mark is no longer available after the end of the production.*

ABBREVIATIONS:

Capacitors	CD	: Ceramic Disk	PF	: Plastic Film	EL	: Electrolytic
Resistors	CF	: Carbon Film	CC	: Carbon Composition	MF	: Metal Film
	OMF	: Oxide Metal Film	VR	: Variable Resistor	FR	: Fusible Resistor

(All CD and PF capacitors are ±5%, 50V and all resistors, ±5%, 1/6W unless otherwise noted.)

Models : 42PW33P

Location No.	Parts No.	Description
CAPACITORS		
C102	24762221	ELECTROLYTIC, 10V 220UF M
C105	24109102	CERAMIC CHIP, 50V B 1000PF K
C106	24797100	ELECTROLYTIC, 50V 10UF M
C108	24762221	ELECTROLYTIC, 10V 220UF M
C109	24109103	CERAMIC CHIP, 50V B 0.01UF K
C115	24109103	CERAMIC CHIP, 50V B 0.01UF K
C160	24567224	PLASTIC FILM, 50V 0.22UF J
C170	24567104	PLASTIC FILM, 50V 0.1UF J
C201	24092730	CERAMIC CHIP, 16V B 0.1UF K
C202	24109103	CERAMIC CHIP, 50V B 0.01UF K
C204	24669010	ELECTROLYTIC, 50V 1UF M 3A
C205	24797229	ELECTROLYTIC, 50V 2.2UF M
C206	24794220	ELECTROLYTIC, 16V 22UF M
C212	24794100	ELECTROLYTIC, 16V 10UF M
C214	24503047	PLASTIC FILM, 63V 0.33UF J
C219	24105100	CERAMIC CHIP, 50V CH 10PF D
C220	24763101	ELECTROLYTIC, 16V 100UF M
C221	24105100	CERAMIC CHIP, 50V CH 10PF D
C222	24105100	CERAMIC CHIP, 50V CH 10PF D
C261	24794101	ELECTROLYTIC, 16V 100UF M
C262	24109103	CERAMIC CHIP, 50V B 0.01UF K
C263	24085967	ELECTROLYTIC, NONPOLAR, 16V 47
C264	24794100	ELECTROLYTIC, 16V 10UF M
C265	24085967	ELECTROLYTIC, NONPOLAR, 16V 47
C266	24794100	ELECTROLYTIC, 16V 10UF M
C301	24092730	CERAMIC CHIP, 16V B 0.1UF K
C302	24092753	CERAMIC CHIP, 10V B 0.22UF K
C303	24567105	PLASTIC FILM, 50V 1 UF J
C304	24092730	CERAMIC CHIP, 16V B 0.1UF K
C305	24092730	CERAMIC CHIP, 16V B 0.1UF K
C306	24105102	CERAMIC CHIP, 25V CH 1000PF J
C307	24567105	PLASTIC FILM, 50V 1 UF J
C308	24092733	CERAMIC CHIP, 50V B 0.022UF K
C309	24105102	CERAMIC CHIP, 25V CH 1000PF J
C310	24669101	ELECTROLYTIC, 50V 100UF M 3A
C311	24109103	CERAMIC CHIP, 50V B 0.01UF K
C312	24105102	CERAMIC CHIP, 25V CH 1000PF J
C313	24666101	ELECTROLYTIC, 16V 100UF M 3A
C314	24092730	CERAMIC CHIP, 16V B 0.1UF K
C315	24666102	ELECTROLYTIC, 16V 1000UF M 3A
C316	24666102	ELECTROLYTIC, 16V 1000UF M 3A
C317	24109222	CERAMIC CHIP, 50V B 2200PF K
C318	24109222	CERAMIC CHIP, 50V B 2200PF K
C319	24092785	CERAMIC CHIP, 10V B 0.47UF K
C320	24669101	ELECTROLYTIC, 50V 100UF M 3A
C321	24669101	ELECTROLYTIC, 50V 100UF M 3A
C322	24109473	CERAMIC CHIP, 25V B 0.047UF K
C323	24109473	CERAMIC CHIP, 25V B 0.047UF K
C324	24669101	ELECTROLYTIC, 50V 100UF M 3A
C325	24503045	PLASTIC FILM, 63V 0.22UF J
C326	24092785	CERAMIC CHIP, 10V B 0.47UF K
C327	24092753	CERAMIC CHIP, 10V B 0.22UF K
C328	24082260	PLASTIC FILM, 100V 4700PF J
C329	24669100	ELECTROLYTIC, 50V 10UF M 3A
C330	24085946	ELECTROLYTIC, NONPOLAR, 16V 10
C332	24669221	ELECTROLYTIC, 50V 220UF M 3A
C333	24693473	PLASTIC FILM, 100V 0.047UF J
C334	24109471	CERAMIC CHIP, 50V B 470PF K
C335	24092730	CERAMIC CHIP, 16V B 0.1UF K
C336	24109473	CERAMIC CHIP, 25V B 0.047UF K
C338	24666330	ELECTROLYTIC, 16V 33UF M 3A
C339	24667101	ELECTROLYTIC, 25V 100UF M 3A
C340	24666330	ELECTROLYTIC, 16V 33UF M 3A
C370	24669229	ELECTROLYTIC, 50V 2.2UF M 3A
C371	24092730	CERAMIC CHIP, 16V B 0.1UF K
C401	24214821	CERAMIC DISC, 500V B 820PF K
C402	24214391	CERAMIC DISC, 500V B 390PF K
C404	24212152	CERAMIC DISC, 50V B 1500PF K
C405	24503042	PLASTIC FILM, 63V 0.12UF J
C406	24678100	ELECTROLYTIC, 200V 10UF M 3A
C412	24828823	PLASTIC FILM, 200V 0.082UF J
C415	24092484	CERAMIC DISC, 2KV B 1500PF K
C416	24828333	PLASTIC FILM, 200V 33000PF J
C417	24679229	ELECTROLYTIC, 250V 2.2UF M 3A
C423	24503281	PLASTIC FILM, 400V 0.47UF J
C426	24211222	CERAMIC DISC, 2KV B 2200PFK
C432	24567223	PLASTIC FILM, 50V 0.022UF J

Location No.	Parts No.	Description
C433	24567473	PLASTIC FILM, 50V 47000PF J
C440	24082823	PLASTIC FILM, 1800VH 1500PF H
C443	24503146	PLASTIC FILM, 1500VH 4700PF H
C444	24082944	PLASTIC FILM, 1500VH 3900PF H
C445	24828473	PLASTIC FILM, 200V 0.047UF J
C446	24679330	ELECTROLYTIC, 250V 33UF M 3A
C448	24073118	ELECTROLYTIC, 160V 33UF M
C449	24214221	CERAMIC DISC, 500V B 220PF K
C460	24679479	ELECTROLYTIC, 250V 4.7UF M 3A
C463	24109103	CERAMIC CHIP, 50V B 0.01UF K
C464	24503343	PLASTIC FILM, 100V 3.3UF K
C465	24109103	CERAMIC CHIP, 50V B 0.01UF K
C466	24109472	CERAMIC CHIP, 50V B 4700PF K
C467	24820123	PLASTIC FILM, 630V 0.012UF J
C468	24820123	PLASTIC FILM, 630V 0.012UF J
C481	24666101	ELECTROLYTIC, 16V 100UF M 3A
C482	24092733	CERAMIC CHIP, 50V B 0.022UF K
C483	24092733	CERAMIC CHIP, 50V B 0.022UF K
C484	24109102	CERAMIC CHIP, 50V B 1000PF K
C491	24666100	ELECTROLYTIC, 10V 10UF M 3A
C497	24503049	PLASTIC FILM, 63V 0.47UF J
C498	24669479	ELECTROLYTIC, 50V 4.7UF M 3A
C501	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C502	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C503	24669470	ELECTROLYTIC, 50V 47UF M 3A
C504	24109103	CERAMIC CHIP, 50V B 0.01UF K
C505	24669470	ELECTROLYTIC, 50V 47UF M 3A
C506	24109103	CERAMIC CHIP, 50V B 0.01UF K
C507	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C508	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C509	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C511	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C512	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C513	24109103	CERAMIC CHIP, 50V B 0.01UF K
C514	24794470	ELECTROLYTIC, 16V 47UF M
C516	24105100	CERAMIC CHIP, 50V CH 10PF D
C517	24797478	ELECTROLYTIC, 50V 0.47UF M
C519	24669479	ELECTROLYTIC, 50V 4.7UF M 3A
C521	24092733	CERAMIC CHIP, 50V B 0.022UF K
C522	24109103	CERAMIC CHIP, 50V B 0.01UF K
C523	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C524	24109103	CERAMIC CHIP, 50V B 0.01UF K
C525	24567104	PLASTIC FILM, 50V 0.1UF J
C526	24109103	CERAMIC CHIP, 50V B 0.01UF K
C527	24797229	ELECTROLYTIC, 50V 2.2UF M
C531	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C532	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C533	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C534	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C536	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C537	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C540	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C541	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C542	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C601	24797010	ELECTROLYTIC, 50V 1UF M
C602	24797010	ELECTROLYTIC, 50V 1UF M
C603	24591102	PLASTIC FILM, 50V 1000PF J
C604	24591102	PLASTIC FILM, 50V 1000PF J
C605	24669010	ELECTROLYTIC, 50V 1UF M 3A
C606	24669010	ELECTROLYTIC, 50V 1UF M 3A
C607	24667470	ELECTROLYTIC, 25V 47UF M 3A
C608	24667470	ELECTROLYTIC, 25V 47UF M 3A
C609	24667470	ELECTROLYTIC, 25V 47UF M 3A
C610	24669479	ELECTROLYTIC, 50V 4.7UF M 3A
C612	24669102	ELECTROLYTIC, 50V 1000UF M 3A

Location No.	Parts No.	Description
C613	24503042	PLASTIC FILM, 63V 0.12UF J
C614	24503042	PLASTIC FILM, 63V 0.12UF J
C615	24669102	ELECTROLYTIC, 50V 1000UF M 3A
C616	24669102	ELECTROLYTIC, 50V 1000UF M 3A
C617	24669220	ELECTROLYTIC, 50V 22UF M 3A
C618	24797478	ELECTROLYTIC, 50V 0.47UF M
C619	24794471	ELECTROLYTIC, 16V 470UF M
C621	24797220	ELECTROLYTIC, 50V 22UF M
C622	24591103	PLASTIC FILM, 50V 0.01UF J
C624	24794100	ELECTROLYTIC, 16V 10UF M
C626	24797478	ELECTROLYTIC, 50V 0.47UF M
C627	24797220	ELECTROLYTIC, 50V 22UF M
C628	24797100	ELECTROLYTIC, 50V 10UF M
C629	24591124	PLASTIC FILM, 50V 0.12UF J
C631	24797220	ELECTROLYTIC, 50V 22UF M
C633	24795221	ELECTROLYTIC, 25V 220UF M
C634	24765101	ELECTROLYITC, 35V 100UF M
C636	24797100	ELECTROLYTIC, 50V 10UF M
C639	24793101	ELECTROLYTIC, 10V 100UF M
C700	24353151	CERAMIC DISC, 50V CH 150PF J
C701	24105330	CERAMIC CHIP, 50V CH 33PF J
C702	24105330	CERAMIC CHIP, 50V CH 33PF J
C703	24105330	CERAMIC CHIP, 50V CH 33PF J
C704	24105330	CERAMIC CHIP, 50V CH 33PF J
C705	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C706	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C707	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C708	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C710	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C711	24203100	ELECTORLYTIC, 16V 10UF M 7L 3A
C712	24105330	CERAMIC CHIP, 50V CH 33PF J
C713	24105330	CERAMIC CHIP, 50V CH 33PF J
C714	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C715	24092730	CERAMIC CHIP, 16V B 0.1UF K
C716	24092730	CERAMIC CHIP, 16V B 0.1UF K
C717	24105470	CERAMIC CHIP, 50V CH 47PF J
C718	24105470	CERAMIC CHIP, 50V CH 47PF J
C719	24794101	ELECTROLYTIC, 16V 100UF M
C720	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C721	24105070	CERAMIC CHIP CC73CH 50V 7PF D
C724	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C725	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C726	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C727	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C730	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C731	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C732	24109103	CERAMIC CHIP, 50V B 0.01UF K
C735	24092730	CERAMIC CHIP, 16V B 0.1UF K
C736	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C739	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C740	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C741	24794470	ELECTROLYTIC, 16V 47UF M
C742	24794470	ELECTROLYTIC, 16V 47UF M
C743	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C744	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C745	24794470	ELECTROLYTIC, 16V 47UF M
C746	24794470	ELECTROLYTIC, 16V 47UF M
C747	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C748	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C749	24794470	ELECTROLYTIC, 16V 47UF M
C750	24794470	ELECTROLYTIC, 16V 47UF M
C761	24105102	CERAMIC CHIP, 25V CH 1000PF J
C762	24590562	PLASTIC FILM, 50V 5600PF J
C763	24105391	CERAMIC CHIP, 50V CH 390PF J
C765	24105102	CERAMIC CHIP, 25V CH 1000PF J

Location No.	Parts No.	Description
C766	24590562	PLASTIC FILM, 50V 5600PF J
C767	24105391	CERAMIC CHIP, 50V CH 390PF J
C769	24105102	CERAMIC CHIP, 25V CH 1000PF J
C770	24590562	PLASTIC FILM, 50V 5600PF J
C771	24105391	CERAMIC CHIP, 50V CH 390PF J
C772	24761221	ELECTROLYTIC, 6.3V 220UF M
C773	24105102	CERAMIC CHIP, 25V CH 1000PF J
C774	24590562	PLASTIC FILM, 50V 5600PF J
C775	24105391	CERAMIC CHIP, 50V CH 390PF J
C777	24105102	CERAMIC CHIP, 25V CH 1000PF J
C778	24590562	PLASTIC FILM, 50V 5600PF J
C779	24105391	CERAMIC CHIP, 50V CH 390PF J
C781	24105102	CERAMIC CHIP, 25V CH 1000PF J
C782	24590562	PLASTIC FILM, 50V 5600PF J
C783	24105391	CERAMIC CHIP, 50V CH 390PF J
C784	24105821	CERAMIC CHIP, 25V CH 820PF J
C785	24105821	CERAMIC CHIP, 25V CH 820PF J
C786	24105821	CERAMIC CHIP, 25V CH 820PF J
C787	24105821	CERAMIC CHIP, 25V CH 820PF J
C788	24105821	CERAMIC CHIP, 25V CH 820PF J
C789	24105821	CERAMIC CHIP, 25V CH 820PF J
C795	24761221	ELECTROLYTIC, 6.3V 220UF M
C798	24763101	ELECTROLYTIC, 16V 100UF M
C799	24763101	ELECTROLYTIC, 16V 100UF M
⚠ C801	24503055	PLASTIC FILM, AC275V 0.22UF M
⚠ C802	24092569	CERAMIC DISC, AC250V E 2200PF
C803	24092569	CERAMIC DISC, AC250V E 2200PF
C804	24092558	CERAMIC DISC, AC250V B 3300PF
C810	24073121	400V 560M 20KH LLQ2G561M
⚠ C811	24092281	CERAMIC DISC, AC250V E 4700PF
C813	24092281	CERAMIC DISC, AC250V E 4700PF
C816	24073081	ELECTROLYTIC, 50V 1.OUF M 3A
C819	24503051	PLASTIC FILM, 63V 0.68UF J
C820	24503055	PLASTIC FILM, AC275V 0.22UF M
C821	24503115	PLASTIC FILM, 800V 0.022UF J
C823	24667221	ELECTROLYTIC, 25V 220UF M 3A
C824	24667221	ELECTROLYTIC, 25V 220UF M 3A
C829	24214103	CERAMIC DISC, 500V B 0.01UF K
C830	24669100	ELECTROLYTIC, 50V 10UF M 3A
C831	24073037	ELECTROLYTIC, 16V 47UF M 3A
C834	24669100	ELECTROLYTIC, 50V 10UF M 3A
C835	24073015	ELECTROLYTIC, 10V 47UF M 3A
C840	24667102	ELECTROLYTIC, 25V 1000UF M 3A
C841	24503053	PLASTIC FILM, 63V 1UF J
C842	24664101	ELECTROLYITC, 6.3V 100UF M 3A
C857	24073058	ELECTROLYTIC, 25V 2200UF M 3A
C858	24073058	ELECTROLYTIC, 25V 2200UF M 3A
C859	24073057	ELECTROLYTIC, 25V 1000UF M 3A
C863	24503045	PLASTIC FILM, 63V 0.22UF J
C864	24092474	CERAMIC DISC, 2KV B 220PF K
C866	24503049	PLASTIC FILM, 63V 0.47UF J
C867	24591682	PLASTIC FILM, 50V 6800PF J
C868	24668470	ELECTROLYTIC, 35V 47UF M 3A
C869	24678229	ELECTROLYTIC, 200V 2.2UF M 3A
C870	24503122	PLASTIC FILM CQ92 T 800V 8200
C871	24092484	CERAMIC DISC, 2KV B 1500PF K
C872	24092474	CERAMIC DISC, 2KV B 220PF K
C873	24503045	PLASTIC FILM, 63V 0.22UF J
C875	24212471	CERAMIC DISC, 50V B 470PF K
C876	24503049	PLASTIC FILM, 63V 0.47UF J
C879	24073081	ELECTROLYTIC, 50V 1.OUF M 3A
C880	24092338	CERAMIC DISC, 2KV R 270PF K
C881	24092338	CERAMIC DISC, 2KV R 270PF K
C884	24086939	ELECTROLYTIC, 200V 330UF M22B
C890	24073094	ELECTROLYTIC, 50V 1000UF M 3A

Location No.	Parts No.	Description
C891	24082229	PLASTIC FILM, 250V 0.1UF D
C894	24073043	ELECTROLYTIC, 16V 2200UF M 3A
C898	24503041	PLASTIC FILM , 63V 0.1UF J
C901	24211102	CERAMIC DISC, 2KV B 1000PF K
C902	24794100	ELECTROLYTIC, 16V 10UF M
C903	24232103	CERAMIC DISC, 50V F 0.01UF Z
C904	24436561	CERAMIC DISC, 50V SL 560PF J
C905	24214102	CERAMIC DISC, 500V B 1000PF K
C911	24211102	CERAMIC DISC, 2KV B 1000PF K
C912	24794100	ELECTROLYTIC, 16V 10UF M
C913	24232103	CERAMIC DISC, 50V F 0.01UF Z
C914	24436821	CERAMIC DISC, 50V SL 820PF J
C915	24679330	ELECTROLYTIC, 250V 33UF M 3A
C916	24794101	ELECTROLYTIC, 16V 100UF M
C921	24211102	CERAMIC DISC, 2KV B 1000PF K
C922	24794100	ELECTROLYTIC, 16V 10UF M
C924	24232103	CERAMIC DISC, 50V F 0.01UF Z
C926	24436681	CERAMIC DISC, 50V SL 680PF J
C961	24666101	ELECTROLYTIC, 16V 100UF M 3A
C962	24203100	ELECTORLYTIC, 16V 10UF M 7L 3A
C963	24232103	CERAMIC DISC, 50V F 0.01UF Z
C964	24591104	PLASTIC FILM, 50V 0.1UF J
C3260	24092785	CERAMIC CHIP, 10V B 0.47UF K
C3301	24797229	ELECTROLYTIC, 50V 2.2UF M
C4401	24109223	CERAMIC CHIP, 25V B 0.022UF K
C4402	24797229	ELECTROLYTIC, 50V 2.2UF M
C4403	24109103	CERAMIC CHIP, 50V B 0.01UF K
C4404	24763102	ELECTROLYTIC, 16V 1000UF M
C4405	24109222	CERAMIC CHIP, 50V B 2200PF K
C4451	24763101	ELECTROLYTIC, 16V 100UF M
C5020	24109103	CERAMIC CHIP, 50V B 0.01UF K
C5030	24763221	ELECTROLYTIC, 16V 220UF M
C5070	24109103	CERAMIC CHIP, 50V B 0.01UF K
C5080	24669010	ELECTROLYTIC, 50V 1UF M 3A
C5090	24763101	ELECTROLYTIC, 16V 100UF M
C5100	24763101	ELECTROLYTIC, 16V 100UF M
C5200	24109102	CERAMIC CHIP, 50V B 1000PF K
C5210	24109102	CERAMIC CHIP, 50V B 1000PF K
C5220	24669010	ELECTROLYTIC, 50V 1UF M 3A
C7702	24105101	CERAMIC CHIP, 50V CH 100PF J
C7718	24667101	ELECTROLYTIC, 25V 100UF M 3A
C7719	24667101	ELECTROLYTIC, 25V 100UF M 3A
C7720	24667101	ELECTROLYTIC, 25V 100UF M 3A
C7721	24105331	CERAMIC CHIP, 50V CH 330PF J
C7722	24105101	CERAMIC CHIP, 50V CH 100PF J
C7724	24667101	ELECTROLYTIC, 25V 100UF M 3A
C7725	24667101	ELECTROLYTIC, 25V 100UF M 3A
C7726	24105331	CERAMIC CHIP, 50V CH 330PF J
C7727	24105101	CERAMIC CHIP, 50V CH 100PF J
C7729	24105331	CERAMIC CHIP, 50V CH 330PF J
C7730	24105101	CERAMIC CHIP, 50V CH 100PF J
C7731	24667101	ELECTROLYTIC, 25V 100UF M 3A
C7732	24105331	CERAMIC CHIP, 50V CH 330PF J
C7733	24105101	CERAMIC CHIP, 50V CH 100PF J
C7735	24667101	ELECTROLYTIC, 25V 100UF M 3A
C7736	24667101	ELECTROLYTIC, 25V 100UF M 3A
C7737	24105331	CERAMIC CHIP, 50V CH 330PF J
C7738	24105101	CERAMIC CHIP, 50V CH 100PF J
C7740	24105331	CERAMIC CHIP, 50V CH 330PF J
C7741	24105101	CERAMIC CHIP, 50V CH 100PF J
C7744	24109103	CERAMIC CHIP, 50V B 0.01UF K
C7747	24667101	ELECTROLYTIC, 25V 100UF M 3A
C7749	24567104	PLASTIC FILM, 50V 0.1UF J
C7750	24667101	ELECTROLYTIC, 25V 100UF M 3A
C7751	24667101	ELECTROLYTIC, 25V 100UF M 3A

Location No.	Parts No.	Description
C7753	24567104	PLASTIC FILM, 50V 0.1UF J
C7754	24667101	ELECTROLYTIC, 25V 100UF M 3A
C7756	24667470	ELECTROLYTIC, 25V 47UF M 3A
C7757	24567104	PLASTIC FILM, 50V 0.1UF J
C7766	24669100	ELECTROLYTIC, 50V 10UF M 3A
C7767	24073053	ELECTROLYTIC, 25V 100UF M 3A
C7769	24109103	CERAMIC CHIP, 50V B 0.01UF K
C7774	24105331	CERAMIC CHIP, 50V CH 330PF J
C7776	24073053	ELECTROLYTIC, 25V 100UF M 3A
C7796	24073034	ELECTROLYTIC, 16V 10UF M 3A
C9602	24794100	ELECTROLYTIC, 16V 10UF M
CA09	24105101	CERAMIC CHIP, 50V CH 100PF J
CA10	24105101	CERAMIC CHIP, 50V CH 100PF J
CA12	24105101	CERAMIC CHIP, 50V CH 100PF J
CA15	24105101	CERAMIC CHIP, 50V CH 100PF J
CA16	24105101	CERAMIC CHIP, 50V CH 100PF J
CA17	24105101	CERAMIC CHIP, 50V CH 100PF J
CA20	24105101	CERAMIC CHIP, 50V CH 100PF J
CA33	24100103	CERAMIC CHIP, 50V F 0.01UF Z
CA42	24794101	ELECTROLYTIC, 16V 100UF M
CA43	24109103	CERAMIC CHIP, 50V B 0.01UF K
CA45	24109103	CERAMIC CHIP, 50V B 0.01UF K
CA58	24794330	ELECTROLYTIC, 16V 33UF M
CA67	24100103	CERAMIC CHIP, 50V F 0.01UF Z
CA68	24794100	ELECTROLYTIC, 16V 10UF M
CA69	24100103	CERAMIC CHIP, 50V F 0.01UF Z
CA70	24794100	ELECTROLYTIC, 16V 10UF M
CB01	24794470	ELECTROLYTIC, 16V 47UF M
CB04	24092538	CERAMIC CHIP, 10V F 1UF Z
CB05	24109222	CERAMIC CHIP, 50V B 2200PF K
CB06	24105561	CERAMIC CHIP, 50V CH 560PF J
CB07	24109332	CERAMIC CHIP, 50V B 3300PF K
CB90	24100103	CERAMIC CHIP, 50V F 0.01UF Z
CC01	24109103	CERAMIC CHIP, 50V B 0.01UF K
CC10	24212221	CERAMIC DISC, 50V B 220PF K
CC15	24436470	CERAMIC DISC, 50V SL 47PF J
CC26	24109103	CERAMIC CHIP, 50V B 0.01UF K
CC27	24109103	CERAMIC CHIP, 50V B 0.01UF K
CC33	24105101	CERAMIC CHIP, 50V CH 100PF J
CC47	24212332	CERAMIC DISC, 50V B 3300PF K
CC48	24212332	CERAMIC DISC, 50V B 3300PF K
CC51	24232103	CERAMIC DISC, 50V F 0.01UF Z
CC52	24232103	CERAMIC DISC, 50V F 0.01UF Z
CC60	24109223	CERAMIC CHIP, 25V B 0.022UF K
CC61	24109223	CERAMIC CHIP, 25V B 0.022UF K
CC62	24109102	CERAMIC CHIP, 50V B 1000PF K
CC63	24109102	CERAMIC CHIP, 50V B 1000PF K
CC64	24109223	CERAMIC CHIP, 25V B 0.022UF K
CC65	24109223	CERAMIC CHIP, 25V B 0.022UF K
CC66	24109102	CERAMIC CHIP, 50V B 1000PF K
CC67	24109102	CERAMIC CHIP, 50V B 1000PF K
CC68	24109102	CERAMIC CHIP, 50V B 1000PF K
CC69	24109102	CERAMIC CHIP, 50V B 1000PF K
CC70	24109102	CERAMIC CHIP, 50V B 1000PF K
CC71	24109102	CERAMIC CHIP, 50V B 1000PF K
CC72	24109102	CERAMIC CHIP, 50V B 1000PF K
CC73	24109102	CERAMIC CHIP, 50V B 1000PF K
CC74	24109102	CERAMIC CHIP, 50V B 1000PF K
CC75	24109102	CERAMIC CHIP, 50V B 1000PF K
CC76	24109102	CERAMIC CHIP, 50V B 1000PF K
CR01	24206010	ELECTROLYTIC, 50V 1.0UF M 7L 3
CR02	24100103	CERAMIC CHIP, 50V F 0.01UF Z
CR09	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CR10	24794470	ELECTROLYTIC, 16V 47UF M
CR11	24100104	CERAMIC CHIP, 25V F 0.1UF Z

Location No.	Parts No.	Description
CR12	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CR13	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CR14	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CR18	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CR19	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CR20	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CR99	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CS01	24797229	ELECTROLYTIC, 50V 2.2UF M
CS02	24797229	ELECTROLYTIC, 50V 2.2UF M
CS03	24797229	ELECTROLYTIC, 50V 2.2UF M
CS04	24797229	ELECTROLYTIC, 50V 2.2UF M
CS05	24797229	ELECTROLYTIC, 50V 2.2UF M
CS06	24797229	ELECTROLYTIC, 50V 2.2UF M
CS07	24797229	ELECTROLYTIC, 50V 2.2UF M
CS08	24797229	ELECTROLYTIC, 50V 2.2UF M
CS09	24797229	ELECTROLYTIC, 50V 2.2UF M
CS11	24794100	ELECTROLYTIC, 16V 10UF M
CS12	24794100	ELECTROLYTIC, 16V 10UF M
CS13	24794100	ELECTROLYTIC, 16V 10UF M
CS14	24794100	ELECTROLYTIC, 16V 10UF M
CS16	24797229	ELECTROLYTIC, 50V 2.2UF M
CS18	24794100	ELECTROLYTIC, 16V 10UF M
CS19	24794100	ELECTROLYTIC, 16V 10UF M
CS20	24797478	ELECTROLYTIC, 50V 0.47UF M
CT01	24792221	ELECTROLYTIC CE04G 6.3V 220U
CT02	24109103	CERAMIC CHIP, 50V B 0.01UF K
CT03	24109103	CERAMIC CHIP, 50V B 0.01UF K
CT04	24793101	ELECTROLYTIC, 10V 100UF M
CT05	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CT06	24793470	ELECTROLYTIC CE04G 10V 47UF
CT07	24092538	CERAMIC CHIP, 10V F 1UF Z
CT08	24105560	CERAMIC CHIP, 50V CH 56PF J
CT09	24105560	CERAMIC CHIP, 50V CH 56PF J
CT10	24793470	ELECTROLYTIC CE04G 10V 47UF
CT11	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CT12	24793470	ELECTROLYTIC CE04G 10V 47UF
CT13	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CT14	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CT17	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CT19	24794100	ELECTROLYTIC, 16V 10UF M
CT20	24109103	CERAMIC CHIP, 50V B 0.01UF K
CT23	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CT99	24793102	ELECTROLYTIC, 10V 1000UF M
CV02	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CV03	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CV04	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CV05	24109103	CERAMIC CHIP, 50V B 0.01UF K
CV06	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CV08	24763221	ELECTROLYTIC, 16V 220UF M
CV12	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CV23	24203101	ELECTROLYTIC, 16V 100UF M 7L 3
CV24	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CV25	24794220	ELECTROLYTIC, 16V 22UF M
CV26	24109473	CERAMIC CHIP, 25V B 0.047UF K
CV35	24109103	CERAMIC CHIP, 50V B 0.01UF K
CV39	24203101	ELECTROLYTIC, 16V 100UF M 7L 3
CV40	24109103	CERAMIC CHIP, 50V B 0.01UF K
CV41	24794470	ELECTROLYTIC, 16V 47UF M
CV42	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CV47	24232103	CERAMIC DISC, 50V F 0.01UF Z
CV65	24203101	ELECTROLYTIC, 16V 100UF M 7L 3
CV66	24203101	ELECTROLYTIC, 16V 100UF M 7L 3
CW01	24781121	CERAMIC CHIP, 50V SL 120PF J
CW02	24781121	CERAMIC CHIP, 50V SL 120PF J
CW03	24781470	CERAMIC CHIP, 50V SL 47PF J

Location No.	Parts No.	Description
CW04	24085945	ELECTROLYTIC, NONPOLAR, 50V 2.
CW04	24591822	PLASTIC FILM, 50V 8200PF J
CW05	24781121	CERAMIC CHIP, 50V SL 120PF J
CW05	24212103	CERAMIC DISC, 50V B 10000PF K
CW06	24781121	CERAMIC CHIP, 50V SL 120PF J
CW07	24206229	CAPACIT0R, ELECTROLYTIC, 50V 2.2UF M 7L 3A
CW07	24666470	ELECTORLYTIC, 16V 47UF M 3A
CW08	24781121	CERAMIC CHIP, 50V SL 120PF J
CW09	24781121	CERAMIC CHIP, 50V SL 120PF J
CW10	24206229	CAPACIT0R, ELECTROLYTIC, 50V 2.2UF M 7L 3A
CW11	24781330	CERAMIC CHIP, 50V SL 33PF J
CW12	24781820	CERAMIC CHIP, 50V SL 82PF J
CW12	24666470	ELECTORLYTIC, 16V 47UF M 3A
CW13	24781330	CERAMIC CHIP, 50V SL 33PF J
CW13	24709100	ELECTROLYTIC, 200V 10UF M
CW14	24781820	CERAMIC CHIP, 50V SL 82PF J
CW14	24436101	CERAMIC DISC, 50V SL 100PF J
CW15	24781330	CERAMIC CHIP, 50V SL 33PF J
CW15	24214472	CERAMIC DISC, 500V B 4700PF K
CW16	24781820	CERAMIC CHIP, 50V SL 82PF J
CW16	24436101	CERAMIC DISC, 50V SL 100PF J
CW17	24214472	CERAMIC DISC, 500V B 4700PF K
CW18	24666470	ELECTORLYTIC, 16V 47UF M 3A
CW19	24435560	CERAMIC DISC, 500V SL 56PF J
CW20	24709100	ELECTROLYTIC, 200V 10UF M
CW21	24794470	ELECTROLYTIC, 16V 47UF M
CW26	24212102	CERAMIC DISC, 50V B 1000PF K
CW27	24085986	ELEC. NONPOLAR, 10V 10UF M 7L
CW28	24085986	ELEC. NONPOLAR, 10V 10UF M 7L
CW29	24085986	ELEC. NONPOLAR, 10V 10UF M 7L
CW30	24202221	ELECTROLYTIC, 10V 220UF M 7L 3
CW31	24092294	CERAMIC CHIP, 16V F 0.33UF Z
CW32	24781331	CERAMIC CHIP, 50V SL 330PF J
CW33	24092294	CERAMIC CHIP, 16V F 0.33UF Z
CW34	24814103	CERAMIC CHIP, 50V F 0.01UF Z
CW35	24092293	CERAMIC CHIP, 25V F 0.1UF Z
CW36	24814103	CERAMIC CHIP, 50V F 0.01UF Z
CW37	24814103	CERAMIC CHIP, 50V F 0.01UF Z
CW38	24202101	ELECTROLYTIC, 10V 100UF M 7L 3
CW39	24092293	CERAMIC CHIP, 25V F 0.1UF Z
CW40	24203101	ELECTROLYTIC, 16V 100UF M 7L 3
CW41	24092293	CERAMIC CHIP, 25V F 0.1UF Z
CW42	24201101	ELECTROLYTIC, 6.3V 100UF M 7L
CW43	24092293	CERAMIC CHIP, 25V F 0.1UF Z
CW44	24201101	ELECTROLYTIC, 6.3V 100UF M 7L
CW45	24092293	CERAMIC CHIP, 25V F 0.1UF Z
CW46	24206010	ELECTROLYTIC, 50V 1.0UF M 7L 3
CW47	24092293	CERAMIC CHIP, 25V F 0.1UF Z
CW48	24092293	CERAMIC CHIP, 25V F 0.1UF Z
CW49	24092293	CERAMIC CHIP, 25V F 0.1UF Z
CW50	24202221	ELECTROLYTIC, 10V 220UF M 7L 3
CW51	24092293	CERAMIC CHIP, 25V F 0.1UF Z
CW52	24092293	CERAMIC CHIP, 25V F 0.1UF Z
CW53	24092293	CERAMIC CHIP, 25V F 0.1UF Z
CW54	24092293	CERAMIC CHIP, 25V F 0.1UF Z
CW55	24815472	CERAMIC CHIP, 50V B 4700PF K
CW56	24781221	CERAMIC CHIP, 50V SL 220PF J
CW60	24092441	CERAMIC CHIP, 16V F 1UF Z
CW61	24781182	CERAMIC CHIP, 50V SL 1800PF J
CW62	24781182	CERAMIC CHIP, 50V SL 1800PF J
CW68	24092293	CERAMIC CHIP, 25V F 0.1UF Z
CW70	24814103	CERAMIC CHIP, 50V F 0.01UF Z
CW72	24567103	PLASTIC FILM, 50V 0.01UF J

Location No.	Parts No.	Description
CW73	24774471	CERAMIC CHIP, 50V CH 470PF J
CW74	24814103	CERAMIC CHIP, 50V F 0.01UF Z
CW75	24092293	CERAMIC CHIP, 25V F 0.1UF Z
CW80	24092441	CERAMIC CHIP, 16V F 1UF Z
CW81	24092441	CERAMIC CHIP, 16V F 1UF Z
CW82	24781330	CERAMIC CHIP, 50V SL 33PF J
CW83	24781330	CERAMIC CHIP, 50V SL 33PF J
CW85	24781330	CERAMIC CHIP, 50V SL 33PF J
CW86	24781330	CERAMIC CHIP, 50V SL 33PF J
CW87	24781330	CERAMIC CHIP, 50V SL 33PF J
CW88	24781330	CERAMIC CHIP, 50V SL 33PF J
CW89	24781330	CERAMIC CHIP, 50V SL 33PF J
CW90	24781330	CERAMIC CHIP, 50V SL 33PF J
CW91	24781330	CERAMIC CHIP, 50V SL 33PF J
CW92	24781330	CERAMIC CHIP, 50V SL 33PF J
CW93	24781330	CERAMIC CHIP, 50V SL 33PF J
CW94	24781101	CERAMIC CHIP, 50V SL 100PF J
CW95	24781101	CERAMIC CHIP, 50V SL 100PF J
CW97	24781101	CERAMIC CHIP, 50V SL 100PF J
CZ01	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CZ02	24109103	CERAMIC CHIP, 50V B 0.01UF K
RESISTORS		
R101	24382333	OXIDE METAL FILM, 1W 33K OHM J
R204	24011104	CHIP, METAL FILM, 1/20W 100K O
R205	24011101	CHIP, METAL FILM, 1/20W 100 OH
R206	24366221	CARBON FILM, 1/6W 220 OHM J
R208	24011224	CHIP, METAL FILM, 1/20W 220K O
R213	24872681	CHIP, METAL FILM, 1/16W 680 OH
R214	24872681	CHIP, METAL FILM, 1/16W 680 OH
R215	24872681	CHIP, METAL FILM, 1/16W 680 OH
R216	24011103	CHIP, METAL FILM, 1/20W 10K OH
R218	24011101	CHIP, METAL FILM, 1/20W 100 OH
R219	24011101	CHIP, METAL FILM, 1/20W 100 OH
R220	24011101	CHIP, METAL FILM, 1/20W 100 OH
R231	24000445	CHIP JUMPER, 1608TYPE
R236	24011332	CHIP, METAL FILM, 1/20W 3.3K O
R241	24367393	CARBON FILM, 1/6W 39K OHM J
R242	24367393	CARBON FILM, 1/6W 39K OHM J
R243	24367393	CARBON FILM, 1/6W 39K OHM J
R244	24366104	CARBON FILM, 1/6W 100K OHM J
R245	24366123	CARBON FILM, 1/6W 12K OHM J
R246	24366103	CARBON FILM, 1/6W 10K OHM J
R247	24366102	CARBON FILM, 1/6W 1K OHM J
R260	24011222	CHIP, METAL FILM, 1/20W 2.2K O
R261	24011681	CHIP, METAL FILM, 1/20W 680 OH
R262	24011102	CHIP, METAL FILM, 1/20W 1K OHM
R263	24011102	CHIP, METAL FILM, 1/20W 1K OHM
R264	24011103	CHIP, METAL FILM, 1/20W 10K OH
R265	24011332	CHIP, METAL FILM, 1/20W 3.3K O
R266	24011332	CHIP, METAL FILM, 1/20W 3.3K O
R269	24011101	CHIP, METAL FILM, 1/20W 100 OH
R270	24011102	CHIP, METAL FILM, 1/20W 1K OHM
R271	24011103	CHIP, METAL FILM, 1/20W 10K OH
R272	24011103	CHIP, METAL FILM, 1/20W 10K OH
R273	24011821	CHIP, METAL FILM, 1/20W 820 OH
R274	24011103	CHIP, METAL FILM, 1/20W 10K OH
R275	24011332	CHIP, METAL FILM, 1/20W 3.3K O
R276	24011102	CHIP, METAL FILM, 1/20W 1K OHM
R277	24011222	CHIP, METAL FILM, 1/20W 2.2K O
R278	24011102	CHIP, METAL FILM, 1/20W 1K OHM
R279	24011332	CHIP, METAL FILM, 1/20W 3.3K O
R280	24011472	CHIP, METAL FILM, 1/20W 4.7K O
R301	24011103	CHIP, METAL FILM, 1/20W 10K OH
R302	24011101	CHIP, METAL FILM, 1/20W 100 OH

Location No.	Parts No.	Description
R303	24011102	CHIP, METAL FILM, 1/20W 1K OHM
R304	24011103	CHIP, METAL FILM, 1/20W 10K OH
R305	24322828	OXIDE METAL FILM, 1W 0.82 OHM
R306	24011153	CHIP, METAL FILM, 1/2OW 15K OH
R307	24011101	CHIP, METAL FILM, 1/20W 100 OH
R308	24011101	CHIP, METAL FILM, 1/20W 100 OH
R310	24011682	CHIP, METAL FILM, 1/20W 6.8K O
R311	24011103	CHIP, METAL FILM, 1/20W 10K OH
R312	24011103	CHIP, METAL FILM, 1/20W 10K OH
R313	24011102	CHIP, METAL FILM, 1/20W 1K OHM
R314	24011473	CHIP, METAL FILM, 1/20W 47K OH
R315	24011821	CHIP, METAL FILM, 1/20W 820 OH
R316	24011102	CHIP, METAL FILM, 1/20W 1K OHM
R317	24011824	CHIP, METAL FILM, 1/20W 820K O
R318	24011100	CHIP, METAL FILM, 1/20W 10 OHM
R320	24000249	METAL FILM, 1/4W 47K OHM F
R321	24011332	CHIP, METAL FILM, 1/20W 3.3K O
R322	24000639	METAL FILM, 1/4W 22K OHM F
R323	24000529	RESIST0R, METAL FILM, 1/4W 6.8K OHM F
R324	24011103	CHIP, METAL FILM, 1/20W 10K OH
R325	24011222	CHIP, METAL FILM, 1/20W 2.2K O
R326	24019388	CHIP, METAL FILM, 1/16W 10K OH
R327	24011103	CHIP, METAL FILM, 1/20W 10K OH
R328	24000633	METAL FILM, 1/4W 10K OHM F
R329	24019388	CHIP, METAL FILM, 1/16W 10K OH
R330	24000221	METAL FILM, 1/4W 20K OHM F
R331	24019119	METAL FILM, 1/6W 30K OHM J
R332	24000525	METAL FILM, 1/4W 4.7K OHM F
R333	24011103	CHIP, METAL FILM, 1/20W 10K OH
R334	24011102	CHIP, METAL FILM, 1/20W 1K OHM
R335	24011102	CHIP, METAL FILM, 1/20W 1K OHM
R336	24011102	CHIP, METAL FILM, 1/20W 1K OHM
R337	24321129	OXIDE METAL FILM, 1/2W 1.2 OHM
R338	24011103	CHIP, METAL FILM, 1/20W 10K OH
R339	24011473	CHIP, METAL FILM, 1/20W 47K OH
R340	24011824	CHIP, METAL FILM, 1/20W 820K O
R341	24011473	CHIP, METAL FILM, 1/20W 47K OH
R342	24011153	CHIP, METAL FILM, 1/2OW 15K OH
R343	24011102	CHIP, METAL FILM, 1/20W 1K OHM
R344	24382271	OXIDE METAL FILM, 1W 270 OHM J
R346	24382391	OXIDE METAL FILM, 1W 390 OHM J
R347	24011103	CHIP, METAL FILM, 1/20W 10K OH
R348	24011103	CHIP, METAL FILM, 1/20W 10K OH
R349	24011392	CHIP, METAL FILM, 1/20W 3.9K O
R350	24011822	CHIP, METAL FILM, 1/20W 8.2K O
R355	24011223	CHIP, METAL FILM, 1/20W 22K OH
R360	24011103	CHIP, METAL FILM, 1/20W 10K OH
R361	24011103	CHIP, METAL FILM, 1/20W 10K OH
R362	24011103	CHIP, METAL FILM, 1/20W 10K OH
R363	24011472	CHIP, METAL FILM, 1/20W 4.7K O
R364	24011153	CHIP, METAL FILM, 1/2OW 15K OH
R365	24011102	CHIP, METAL FILM, 1/20W 1K OHM
R370	24011102	CHIP, METAL FILM, 1/20W 1K OHM
R371	24011823	CHIP, METAL FILM, 1/20W 82K OH
R372	24011332	CHIP, METAL FILM, 1/20W 3.3K O
R373	24011823	CHIP, METAL FILM, 1/20W 82K OH
R374	24011104	CHIP, METAL FILM, 1/20W 100K O
R375	24011153	CHIP, METAL FILM, 1/2OW 15K OH
R376	24011333	CHIP, METAL FILM, 1/20W 33K OH
R377	24000824	CHIP JUMPER, 2125TYPE
R378	24011332	CHIP, METAL FILM, 1/20W 3.3K O
R380	24011472	CHIP, METAL FILM, 1/20W 4.7K O
R381	24011223	CHIP, METAL FILM, 1/20W 22K OH
R390	24382561	OXIDE METAL FILM, 1W 560 OHM J
R391	24382561	OXIDE METAL FILM, 1W 560 OHM J

Location No.	Parts No.	Description
R392	24382561	OXIDE METAL FILM, 1W 560 OHM J
R401	24011222	CHIP, METAL FILM, 1/20W 2.2K O
R402	24011102	CHIP, METAL FILM, 1/20W 1K OHM
R403	24553272	OXIDE METAL FILM, 1W 2.7K OHM
R404	24366332	CARBON FILM, 1/6W 3.3K OHM J
R405	24011101	CHIP, METAL FILM, 1/20W 100 OH
R406	24382472	OXIDE METAL FILM, 1W 4.7K OHM
R407	24381100	OXIDE METAL FILM, 1/2W 10 OHM
R408	24011222	CHIP, METAL FILM, 1/20W 2.2K O
R409	24555220	OXIDE METAL FILM, 3W 22 OHM J
R410	24555220	OXIDE METAL FILM, 3W 22 OHM J
R411	24383270	OXIDE METAL FILM, 2W 27 OHM J
R412	24011222	CHIP, METAL FILM, 1/20W 2.2K O
R413	24011332	CHIP, METAL FILM, 1/20W 3.3K O
R414	24366100	CARBON FILM, 1/6W 10 OHM J
R415	24011102	CHIP, METAL FILM, 1/20W 1K OHM
R416	24384682	OXIDE METAL FILM, 3W 6.8K OHM
R417	24019292	FUSIBLE, 1/2W 68 OHM J
R418	24382104	OXIDE METAL FILM, 1W 100K OHM
R419	24942102	CARBON COMPOSITION, 1/2W 1K OH
R420	24011103	CHIP, METAL FILM, 1/20W 10K OH
R421	24366223	CARBON FILM, 1/6W 22K OHM J
R422	24366223	CARBON FILM, 1/6W 22K OHM J
R431	24383102	OXIDE METAL FILM, 2W 1K OHM J
R432	24376274	CARBON FILM, 1/2W 270K OHM J
R433	24376274	CARBON FILM, 1/2W 270K OHM J
R434	24376274	CARBON FILM, 1/2W 270K OHM J
R435	24011472	CHIP, METAL FILM, 1/20W 4.7K O
R441	24383102	OXIDE METAL FILM, 2W 1K OHM J
R443	24310109	OXIDE METAL FILM, 1/2W 1 OHM J
R444	24338398	OXIDE METAL FILM, 1W 0.39 OHM
R445	24011103	CHIP, METAL FILM, 1/20W 10K OH
R446	24366103	CARBON FILM, 1/6W 10K OHM J
R447	24382473	OXIDE METAL FILM, 1W 47K OHM J
R448	24366334	CARBON FILM, 1/6W 330K OHM J
R449	24011681	CHIP, METAL FILM, 1/20W 680 OH
R455	24011103	CHIP, METAL FILM, 1/20W 10K OH
R460	24011103	CHIP, METAL FILM, 1/20W 10K OH
R461	24011103	CHIP, METAL FILM, 1/20W 10K OH
R462	24011103	CHIP, METAL FILM, 1/20W 10K OH
R463	24011562	CHIP, METAL FILM, 1/20W 5.6K O
R464	24011472	CHIP, METAL FILM, 1/20W 4.7K O
R465	24011474	CHIP, METAL FILM, 1/20W 470K O
R466	24011103	CHIP, METAL FILM, 1/20W 10K OH
R467	24011683	CHIP, METAL FILM, 1/20W 68K OH
R468	24011153	CHIP, METAL FILM, 1/2OW 15K OH
R469	24011101	CHIP, METAL FILM, 1/20W 100 OH
R470	24011224	CHIP, METAL FILM, 1/20W 220K O
R470	24323568	OXIDE METAL FILM, 2W 0.56 OHM
R471	24552271	OXIDE METAL FILM, 1/2W 270 OHM
R472	24552151	OXIDE METAL FILM, 1/2W 150 OHM
R473	24327223	METAL FILM, 1/4W 22K OHM F
R474	24327223	METAL FILM, 1/4W 22K OHM F
R475	24011103	CHIP, METAL FILM, 1/20W 10K OH
R475	24366102	CARBON FILM, 1/6W 1K OHM J
R476	24011223	CHIP, METAL FILM, 1/20W 22K OH
R477	24011332	CHIP, METAL FILM, 1/20W 3.3K O
R478	24011474	CHIP, METAL FILM, 1/20W 470K O
R479	24011103	CHIP, METAL FILM, 1/20W 10K OH
R480	24011223	CHIP, METAL FILM, 1/20W 22K OH
R481	24011472	CHIP, METAL FILM, 1/20W 4.7K O
R482	24552331	OXIDE METAL FILM, 1/2W 330 OHM
R488	24011392	CHIP, METAL FILM, 1/20W 3.9K O
R489	24011222	CHIP, METAL FILM, 1/20W 2.2K O
R490	24011103	CHIP, METAL FILM, 1/20W 10K OH

Location No.	Parts No.	Description
R491	24011102	CHIP, METAL FILM, 1/20W 1K OHM
R492	24000370	METAL FILM, 1/4W 3.3K OHM F
R493	24000137	METAL FILM, 1/4W 150 OHM F
R494	24000364	METAL FILM, 1/4W 1.8K OHM F
R495	24011333	CHIP, METAL FILM, 1/20W 33K OH
R496	24366103	CARBON FILM, 1/6W 10K OHM J
R497	24011331	CHIP, METAL FILM, 1/20W 330 OH
R498	24011101	CHIP, METAL FILM, 1/20W 100 OH
R501	24011682	CHIP, METAL FILM, 1/20W 6.8K O
R502	24011272	CHIP, METAL FILM, 1/20W 2.7K O
R504	24011101	CHIP, METAL FILM, 1/20W 100 OH
R505	24011101	CHIP, METAL FILM, 1/20W 100 OH
R506	24011273	CHIP, METAL FILM, 1/20W 27K OH
R507	24011392	CHIP, METAL FILM, 1/20W 3.9K O
R508	24011682	CHIP, METAL FILM, 1/20W 6.8K O
R511	24011102	CHIP, METAL FILM, 1/20W 1K OHM
R512	24011102	CHIP, METAL FILM, 1/20W 1K OHM
R513	24366101	CARBON FILM, 1/6W 100 OHM J
R514	24011102	CHIP, METAL FILM, 1/20W 1K OHM
R515	24011102	CHIP, METAL FILM, 1/20W 1K OHM
R515	24366103	CARBON FILM, 1/6W 10K OHM J
R516	24011102	CHIP, METAL FILM, 1/20W 1K OHM
R517	24011102	CHIP, METAL FILM, 1/20W 1K OHM
R520	24366681	CARBON FILM, 1/6W 680 OHM J
R522	24011222	CHIP, METAL FILM, 1/20W 2.2K O
R523	24011103	CHIP, METAL FILM, 1/20W 10K OH
R524	24011103	CHIP, METAL FILM, 1/20W 10K OH
R525	24011222	CHIP, METAL FILM, 1/20W 2.2K O
R526	24011101	CHIP, METAL FILM, 1/20W 100 OH
R527	24011101	CHIP, METAL FILM, 1/20W 100 OH
R528	24011472	CHIP, METAL FILM, 1/20W 4.7K O
R529	24011331	CHIP, METAL FILM, 1/20W 330 OH
R530	24011682	CHIP, METAL FILM, 1/20W 6.8K O
R543	24011331	CHIP, METAL FILM, 1/20W 330 OH
R548	24011331	CHIP, METAL FILM, 1/20W 330 OH
R553	24011331	CHIP, METAL FILM, 1/20W 330 OH
R601	24011222	CHIP, METAL FILM, 1/20W 2.2K O
R602	24011222	CHIP, METAL FILM, 1/20W 2.2K O
R603	24011123	CHIP, METAL FILM, 1/20W 12K OH
R604	24011123	CHIP, METAL FILM, 1/20W 12K OH
R605	24011123	CHIP, METAL FILM, 1/20W 12K OH
R606	24011123	CHIP, METAL FILM, 1/20W 12K OH
R607	24011223	CHIP, METAL FILM, 1/20W 22K OH
R608	24011223	CHIP, METAL FILM, 1/20W 22K OH
R609	24366229	CARBON FILM, 1/6W 2.2 OHM J
R610	24366229	CARBON FILM, 1/6W 2.2 OHM J
R611	24011104	CHIP, METAL FILM, 1/20W 100K O
R613	24011223	CHIP, METAL FILM, 1/20W 22K OH
R614	24011223	CHIP, METAL FILM, 1/20W 22K OH
R615	24011103	CHIP, METAL FILM, 1/20W 10K OH
R616	24011103	CHIP, METAL FILM, 1/20W 10K OH
R617	24011104	CHIP, METAL FILM, 1/20W 100K O
R618	24011103	CHIP, METAL FILM, 1/20W 10K OH
R619	24011224	CHIP, METAL FILM, 1/20W 220K O
R620	24552122	OXIDE METAL FILM, 1/2W 1.2K OH
R621	24011153	CHIP, METAL FILM, 1/2OW 15K OH
R622	24011153	CHIP, METAL FILM, 1/2OW 15K OH
R623	24011562	CHIP, METAL FILM, 1/20W 5.6K O
R624	24011102	CHIP, METAL FILM, 1/20W 1K OHM
R625	24011681	CHIP, METAL FILM, 1/20W 680 OH
R626	24011223	CHIP, METAL FILM, 1/20W 22K OH
R627	24011223	CHIP, METAL FILM, 1/20W 22K OH
R628	24011472	CHIP, METAL FILM, 1/20W 4.7K O
R629	24011102	CHIP, METAL FILM, 1/20W 1K OHM
R630	24011123	CHIP, METAL FILM, 1/20W 12K OH

Location No.	Parts No.	Description
R631	24011332	CHIP, METAL FILM, 1/20W 3.3K O
R632	24011223	CHIP, METAL FILM, 1/20W 22K OH
R633	24011221	CHIP, METAL FILM, 1/20W 220 OH
R634	24011822	CHIP, METAL FILM, 1/20W 8.2K O
R635	24011562	CHIP, METAL FILM, 1/20W 5.6K O
R636	24872822	CHIP, METAL FILM, 1/16W 8.2K O
R637	24872822	CHIP, METAL FILM, 1/16W 8.2K O
R641	24011103	CHIP, METAL FILM, 1/20W 10K OH
R642	24011223	CHIP, METAL FILM, 1/20W 22K OH
R643	24011103	CHIP, METAL FILM, 1/20W 10K OH
R644	24011473	CHIP, METAL FILM, 1/20W 47K OH
R645	24011104	CHIP, METAL FILM, 1/20W 100K O
R646	24872822	CHIP, METAL FILM, 1/16W 8.2K O
R647	24872822	CHIP, METAL FILM, 1/16W 8.2K O
R688	24552391	OXIDE METAL FILM, 1/2W 390 OHM
R690	24552391	OXIDE METAL FILM, 1/2W 390 OHM
R701	24872221	CHIP, METAL FILM, 1/16W 220 OH
R702	24872221	CHIP, METAL FILM, 1/16W 220 OH
R703	24872472	CHIP, METAL FILM, 1/16W 4.7K O
R704	24872472	CHIP, METAL FILM, 1/16W 4.7K O
R705	24872472	CHIP, METAL FILM, 1/16W 4.7K O
R706	24872472	CHIP, METAL FILM, 1/16W 4.7K O
R707	24872100	CHIP, METAL FILM, 1/16W 10 OHM
R708	24872100	CHIP, METAL FILM, 1/16W 10 OHM
R709	24872100	CHIP, METAL FILM, 1/16W 10 OHM
R710	24872100	CHIP, METAL FILM, 1/16W 10 OHM
R711	24872100	CHIP, METAL FILM, 1/16W 10 OHM
R712	24872100	CHIP, METAL FILM, 1/16W 10 OHM
R713	24872100	CHIP, METAL FILM, 1/16W 10 OHM
R714	24872100	CHIP, METAL FILM, 1/16W 10 OHM
R716	24872103	CHIP, METAL FILM, 1/16W 10K OH
R718	24872221	CHIP, METAL FILM, 1/16W 220 OH
R720	24872103	CHIP, METAL FILM, 1/16W 10K OH
R721	24872103	CHIP, METAL FILM, 1/16W 10K OH
R722	24872561	CHIP, METAL FILM, 1/16W 560 OH
R723	24872102	CHIP, METAL FILM, 1/16W 1K OHM
R724	24872102	CHIP, METAL FILM, 1/16W 1K OHM
R725	24872102	CHIP, METAL FILM, 1/16W 1K OHM
R726	24872331	CHIP, METAL FILM, 1/16W 330 OH
R727	24872222	CHIP, METAL FILM, 1/16W 2.2K O
R728	24872221	CHIP, METAL FILM, 1/16W 220 OH
R729	24872221	CHIP, METAL FILM, 1/16W 220 OH
R730	24872473	CHIP, METAL FILM, 1/16W 47K OH
R731	24872473	CHIP, METAL FILM, 1/16W 47K OH
R732	24872473	CHIP, METAL FILM, 1/16W 47K OH
R733	24872473	CHIP, METAL FILM, 1/16W 47K OH
R734	24872221	CHIP, METAL FILM, 1/16W 220 OH
R735	24872911	CHIP, METAL FILM, 1/16W 910 OH
R736	24872911	CHIP, METAL FILM, 1/16W 910 OH
R737	24872152	CHIP, METAL FILM, 1/16W 1.5K O
R738	24872332	CHIP, METAL FILM, 1/16W 3.3K O
R739	24872362	CHIP, METAL FILM, 1/16W 3.6K O
R740	24872911	CHIP, METAL FILM, 1/16W 910 OH
R741	24872911	CHIP, METAL FILM, 1/16W 910 OH
R742	24872152	CHIP, METAL FILM, 1/16W 1.5K O
R743	24872332	CHIP, METAL FILM, 1/16W 3.3K O
R744	24872362	CHIP, METAL FILM, 1/16W 3.6K O
R745	24872911	CHIP, METAL FILM, 1/16W 910 OH
R746	24872911	CHIP, METAL FILM, 1/16W 910 OH
R747	24872152	CHIP, METAL FILM, 1/16W 1.5K O
R748	24872332	CHIP, METAL FILM, 1/16W 3.3K O
R749	24872362	CHIP, METAL FILM, 1/16W 3.6K O
R750	24872911	CHIP, METAL FILM, 1/16W 910 OH
R751	24872911	CHIP, METAL FILM, 1/16W 910 OH
R752	24872152	CHIP, METAL FILM, 1/16W 1.5K O

Location No.	Parts No.	Description
R753	24872332	CHIP, METAL FILM, 1/16W 3.3K O
R754	24872362	CHIP, METAL FILM, 1/16W 3.6K O
R755	24872911	CHIP, METAL FILM, 1/16W 910 OH
R756	24872911	CHIP, METAL FILM, 1/16W 910 OH
R757	24872152	CHIP, METAL FILM, 1/16W 1.5K O
R758	24872332	CHIP, METAL FILM, 1/16W 3.3K O
R759	24872362	CHIP, METAL FILM, 1/16W 3.6K O
R760	24872911	CHIP, METAL FILM, 1/16W 910 OH
R761	24872911	CHIP, METAL FILM, 1/16W 910 OH
R762	24872152	CHIP, METAL FILM, 1/16W 1.5K O
R763	24872332	CHIP, METAL FILM, 1/16W 3.3K O
R764	24872362	CHIP, METAL FILM, 1/16W 3.6K O
R778	24872101	CHIP, METAL FILM, 1/16W 100 OH
R779	24872101	CHIP, METAL FILM, 1/16W 100 OH
R780	24872101	CHIP, METAL FILM, 1/16W 100 OH
R781	24872101	CHIP, METAL FILM, 1/16W 100 OH
R782	24872101	CHIP, METAL FILM, 1/16W 100 OH
R783	24872101	CHIP, METAL FILM, 1/16W 100 OH
R786	24872472	CHIP, METAL FILM, 1/16W 4.7K O
R787	24872472	CHIP, METAL FILM, 1/16W 4.7K O
R790	24872101	CHIP, METAL FILM, 1/16W 100 OH
R791	24872101	CHIP, METAL FILM, 1/16W 100 OH
R792	24872101	CHIP, METAL FILM, 1/16W 100 OH
R793	24872101	CHIP, METAL FILM, 1/16W 100 OH
R794	24872101	CHIP, METAL FILM, 1/16W 100 OH
R795	24000824	CHIP JUMPER, 2125TYPE
R796	24000824	CHIP JUMPER, 2125TYPE
R797	24872101	CHIP, METAL FILM, 1/16W 100 OH
R798	24872101	CHIP, METAL FILM, 1/16W 100 OH
R799	24872101	CHIP, METAL FILM, 1/16W 100 OH
⚠ R801	24005015	METAL GLAZE, 1W 8.2M OHM J
R810	24510152	CERAMIC COVERED, 5W 1.5K OHM J
R814	24366102	CARBON FILM, 1/6W 1K OHM J
R815	24366102	CARBON FILM, 1/6W 1K OHM J
R816	24366102	CARBON FILM, 1/6W 1K OHM J
R817	24366102	CARBON FILM, 1/6W 1K OHM J
R818	24366471	CARBON FILM, 1/6W 470 OHM J
R819	24009954	METAL FILN, 1/2W 2.2M OHM J
R820	24327153	METAL FILM, 1/4W 15K OHM J
R821	24327123	METAL FILM, 1/4W 12K OHM F
R822	24327123	METAL FILM, 1/4W 12K OHM F
R823	24327123	METAL FILM, 1/4W 12K OHM F
R824	24366102	CARBON FILM, 1/6W 1K OHM J
R830	24366333	CARBON FILM, 1/6W 33K OHM J
R840	24366473	CARBON FILM, 1/6W 47K OHM J
R842	24366222	CARBON FILM, 1/6W 2.2K OHM J
R843	24366103	CARBON FILM, 1/6W 10K OHM J
R861	24555333	OXIDE METAL FILM, 3W 33K OHM J
R862	24321689	OXIDE METAL FILM, 1/2W 6.8 OHM
R864	24552102	OXIDE METAL FILM, 1/2W 1K OHM
R865	24545109	FUSIBLE, 1/4W 1 OHM J
R866	24552470	OXIDE METAL FILM, 1/2W 47 OHM
R867	24367563	CARBON FILM, 1/6W 56K OHM G
R868	24552560	OXIDE METAL FILM, 1/2W 56 OHM
R870	24552121	OXIDE METAL FILM, 1/2W 120 OHM
R871	24553680	OXIDE METAL FILM, 1W 68 OHM J
R872	24377224	CARBON FILM, 1W 220K OHM J
R883	24381683	OXIDE METAL FILM, 1/2W 68K OHM
R884	24366102	CARBON FILM, 1/6W 1K OHM J
R885	24545109	FUSIBLE, 1/4W 1 OHM J
R891	24366152	CARBON FILM, 1/6W 1.5K OHM J
R901	24366471	CARBON FILM, 1/6W 470 OHM J
R903	24942102	CARBON COMPOSITION, 1/2W 1K OH
R905	24366390	CARBON FILM, 1/6W 39 OHM J
R906	24366621	CARBON FILM, 1/6W 620 OHM J

Location No.	Parts No.	Description
R908	24366560	CARBON FILM, 1/6W 56 OHM J
R909	24366121	CARBON FILM, 1/6W 120 OHM J
R911	24366471	CARBON FILM, 1/6W 470 OHM J
R913	24942102	CARBON COMPOSITION, 1/2W 1K OH
R915	24366330	CARBON FILM, 1/6W 33 OHM J
R916	24366621	CARBON FILM, 1/6W 620 OHM J
R918	24366430	CARBON FILM, 1/6W 43 OHM J
R921	24366471	CARBON FILM, 1/6W 470 OHM J
R923	24942102	CARBON COMPOSITION, 1/2W 1K OH
R925	24366121	CARBON FILM, 1/6W 120 OHM J
R926	24366621	CARBON FILM, 1/6W 620 OHM J
R928	24366680	CARBON FILM, 1/6W 68 OHM J
R931	24555153	OXIDE METAL FILM, 3W 15K OHM J
R932	24555153	OXIDE METAL FILM, 3W 15K OHM J
R933	24000921	FUSIBLE, 2W 1.2 OHM J
R935	24366150	CARBON FILM, 1/6W 15 OHM J
R941	24555153	OXIDE METAL FILM, 3W 15K OHM J
R942	24555153	OXIDE METAL FILM, 3W 15K OHM J
R949	24366101	CARBON FILM, 1/6W 100 OHM J
R951	24555153	OXIDE METAL FILM, 3W 15K OHM J
R952	24555153	OXIDE METAL FILM, 3W 15K OHM J
R953	24366390	CARBON FILM, 1/6W 39 OHM J
R956	24366102	CARBON FILM, 1/6W 1K OHM J
R961	24366102	CARBON FILM, 1/6W 1K OHM J
R962	24366361	CARBON FILM, 1/6W 360 OHM J
R964	24366332	CARBON FILM, 1/6W 3.3K OHM J
R965	24366471	CARBON FILM, 1/6W 470 OHM J
R966	24366821	CARBON FILM, 1/6W 820 OHM J
R967	24366102	CARBON FILM, 1/6W 1K OHM J
R968	24366680	CARBON FILM, 1/6W 68 OHM J
R969	24366103	CARBON FILM, 1/6W 10K OHM J
R970	24366222	CARBON FILM, 1/6W 2.2K OHM J
R971	24367152	CARBON FILM, 1/6W 1.5K OHM G
R972	24367471	CARBON FILM, 1/6W 470 OHM G
R973	24367681	CARBON FILM, 1/6W 680 OHM G
R974	24367681	CARBON FILM, 1/6W 680 OHM G
R975	24366242	CARBON FILM, 1/6W 2.4K OHM J
R976	24367562	CARBON FILM, 1/6W 5.6K OHM G
R977	24367472	CARBON FILM, 1/6W 4.7K OHM G
R978	24367681	CARBON FILM, 1/6W 680 OHM G
R4401	24011105	CHIP, METAL FILM, 1/20W 1M OHM
R4403	24011152	CHIP, METAL FILM, 1/20W 1.5K O
R4404	24011152	CHIP, METAL FILM, 1/20W 1.5K O
R4405	24011391	CHIP, METAL FILM, 1/20W 390 OH
R4406	24011274	CHIP, METAL FILM, 1/20W 270K O
R4407	24011223	CHIP, METAL FILM, 1/20W 22K OH
R4408	24011102	CHIP, METAL FILM, 1/20W 1K OHM
R4409	24011471	CHIP, METAL FILM, 1/20W 470 OH
R4422	24011101	CHIP, METAL FILM, 1/20W 100 OH
R4451	24011472	CHIP, METAL FILM, 1/20W 4.7K O
R4452	24011103	CHIP, METAL FILM, 1/20W 10K OH
R4453	24011272	CHIP, METAL FILM, 1/20W 2.7K O
R4454	24011102	CHIP, METAL FILM, 1/20W 1K OHM
R4471	24011222	CHIP, METAL FILM, 1/20W 2.2K O
R4472	24552101	OXIDE METAL FILM, 1/2W 100 OHM
R5020	24011101	CHIP, METAL FILM, 1/20W 100 OH
R5030	24011101	CHIP, METAL FILM, 1/20W 100 OH
R7707	24011472	CHIP, METAL FILM, 1/20W 4.7K O
R7708	24011472	CHIP, METAL FILM, 1/20W 4.7K O
R7709	24011102	CHIP, METAL FILM, 1/20W 1K OHM
R7710	24383680	OXIDE METAL FILM, 2W 68 OHM J
R7711	24547189	FUSIBLE, 1W 1.8 OHM J
R7712	24011472	CHIP, METAL FILM, 1/20W 4.7K O
R7713	24011472	CHIP, METAL FILM, 1/20W 4.7K O
R7714	24011102	CHIP, METAL FILM, 1/20W 1K OHM

Location No.	Parts No.	Description
R7715	24383680	OXIDE METAL FILM, 2W 68 OHM J
R7716	24547189	FUSIBLE, 1W 1.8 OHM J
R7717	24011472	CHIP, METAL FILM, 1/20W 4.7K O
R7718	24011472	CHIP, METAL FILM, 1/20W 4.7K O
R7719	24011102	CHIP, METAL FILM, 1/20W 1K OHM
R7720	24383680	OXIDE METAL FILM, 2W 68 OHM J
R7721	24547189	FUSIBLE, 1W 1.8 OHM J
R7722	24011472	CHIP, METAL FILM, 1/20W 4.7K O
R7723	24011472	CHIP, METAL FILM, 1/20W 4.7K O
R7724	24011102	CHIP, METAL FILM, 1/20W 1K OHM
R7725	24383680	OXIDE METAL FILM, 2W 68 OHM J
R7726	24547189	FUSIBLE, 1W 1.8 OHM J
R7727	24011472	CHIP, METAL FILM, 1/20W 4.7K O
R7728	24011472	CHIP, METAL FILM, 1/20W 4.7K O
R7729	24011102	CHIP, METAL FILM, 1/20W 1K OHM
R7730	24383680	OXIDE METAL FILM, 2W 68 OHM J
R7731	24547189	FUSIBLE, 1W 1.8 OHM J
R7732	24011472	CHIP, METAL FILM, 1/20W 4.7K O
R7733	24011472	CHIP, METAL FILM, 1/20W 4.7K O
R7734	24011102	CHIP, METAL FILM, 1/20W 1K OHM
R7735	24383680	OXIDE METAL FILM, 2W 68 OHM J
R7736	24547189	FUSIBLE, 1W 1.8 OHM J
R7766	24011223	CHIP, METAL FILM, 1/20W 22K OH
R7767	24011153	CHIP, METAL FILM, 1/2OW 15K OH
R7773	24011224	CHIP, METAL FILM, 1/20W 220K O
R7777	24011103	CHIP, METAL FILM, 1/20W 10K OH
R7779	24011102	CHIP, METAL FILM, 1/20W 1K OHM
R7780	24011102	CHIP, METAL FILM, 1/20W 1K OHM
R7781	24011333	CHIP, METAL FILM, 1/20W 33K OH
R7795	24000445	CHIP JUMPER, 1608TYPE
R7796	24000445	CHIP JUMPER, 1608TYPE
R7797	24000445	CHIP JUMPER, 1608TYPE
R7798	24011221	CHIP, METAL FILM, 1/20W 220 OH
R7799	24011222	CHIP, METAL FILM, 1/20W 2.2K O
R7845	24011221	CHIP, METAL FILM, 1/20W 220 OH
R7846	24011472	CHIP, METAL FILM, 1/20W 4.7K O
R7847	24011103	CHIP, METAL FILM, 1/20W 10K OH
R7848	24011103	CHIP, METAL FILM, 1/20W 10K OH
R7849	24011103	CHIP, METAL FILM, 1/20W 10K OH
R7850	24011224	CHIP, METAL FILM, 1/20W 220K O
R7851	24011153	CHIP, METAL FILM, 1/2OW 15K OH
R7852	24011103	CHIP, METAL FILM, 1/20W 10K OH
R7853	24011154	CHIP, METAL FILM, 1/20W 150K O
R7854	24011154	CHIP, METAL FILM, 1/20W 150K O
R7863	24011222	CHIP, METAL FILM, 1/20W 2.2K O
R7864	24011222	CHIP, METAL FILM, 1/20W 2.2K O
R7866	24011154	CHIP, METAL FILM, 1/20W 150K O
R7867	24011154	CHIP, METAL FILM, 1/20W 150K O
R7890	24011222	CHIP, METAL FILM, 1/20W 2.2K O
R7891	24011222	CHIP, METAL FILM, 1/20W 2.2K O
R7895	24011222	CHIP, METAL FILM, 1/20W 2.2K O
R9601	24366471	CARBON FILM, 1/6W 470 OHM J
R9602	24366362	CARBON FILM, 1/6W 3.6K OHM J
R9603	24366392	CARBON FILM, 1/6W 3.9K OHM J
R9604	24366272	CARBON FILM, 1/6W 2.7K OHM J
R9605	24366682	CARBON FILM, 1/6W 6.8K OHM J
R9606	24366392	CARBON FILM, 1/6W 3.9K OHM J
R9613	24366680	CARBON FILM, 1/6W 68 OHM J
R9614	24366390	CARBON FILM, 1/6W 39 OHM J
R9615	24366101	CARBON FILM, 1/6W 100 OHM J
R9616	24366102	CARBON FILM, 1/6W 1K OHM J
RA01	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RA02	24011103	CHIP, METAL FILM, 1/20W 10K OH
RA03	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RA04	24011102	CHIP, METAL FILM, 1/20W 1K OHM

Location No.	Parts No.	Description
RA05	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RA07	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RA08	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RA09	24011682	CHIP, METAL FILM, 1/20W 6.8K O
RA10	24011682	CHIP, METAL FILM, 1/20W 6.8K O
RA11	24011331	CHIP, METAL FILM, 1/20W 330 OH
RA12	24011331	CHIP, METAL FILM, 1/20W 330 OH
RA13	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RA16	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RA17	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RA18	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RA19	24011331	CHIP, METAL FILM, 1/20W 330 OH
RA20	24011331	CHIP, METAL FILM, 1/20W 330 OH
RA21	24011331	CHIP, METAL FILM, 1/20W 330 OH
RA22	24011331	CHIP, METAL FILM, 1/20W 330 OH
RA23	24011103	CHIP, METAL FILM, 1/20W 10K OH
RA24	24011472	CHIP, METAL FILM, 1/20W 4.7K O
RA25	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RA26	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RA27	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RA29	24011103	CHIP, METAL FILM, 1/20W 10K OH
RA30	24011103	CHIP, METAL FILM, 1/20W 10K OH
RA33	24011103	CHIP, METAL FILM, 1/20W 10K OH
RA35	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RA37	24011101	CHIP, METAL FILM, 1/20W 100 OH
RA38	24011101	CHIP, METAL FILM, 1/20W 100 OH
RA39	24000445	CHIP JUMPER, 1608TYPE
RA43	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RA44	24011103	CHIP, METAL FILM, 1/20W 10K OH
RA50	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RA51	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RA52	24011333	CHIP, METAL FILM, 1/20W 33K OH
RA60	24011470	CHIP, METAL FILM, 1/20W 47 OHM
RA601	24011103	CHIP, METAL FILM, 1/20W 10K OH
RA602	24011223	CHIP, METAL FILM, 1/20W 22K OH
RA609	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RA62	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RA63	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RA65	24011103	CHIP, METAL FILM, 1/20W 10K OH
RA66	24011103	CHIP, METAL FILM, 1/20W 10K OH
RA67	24011472	CHIP, METAL FILM, 1/20W 4.7K O
RA68	24011472	CHIP, METAL FILM, 1/20W 4.7K O
RA70	24011333	CHIP, METAL FILM, 1/20W 33K OH
RA71	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RA71	24366683	CARBON FILM, 1/6W 68K OHM J
RA72	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RA72	24366223	CARBON FILM, 1/6W 22K OHM J
RA73	24011470	CHIP, METAL FILM, 1/20W 47 OHM
RA73	24366103	CARBON FILM, 1/6W 10K OHM J
RA75	24011333	CHIP, METAL FILM, 1/20W 33K OH
RA75	24366103	CARBON FILM, 1/6W 10K OHM J
RA76	24011103	CHIP, METAL FILM, 1/20W 10K OH
RA78	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RA89	24011152	CHIP, METAL FILM, 1/20W 1.5K O
RB01	24366271	CARBON FILM, 1/6W 270 OHM J
RB02	24366471	CARBON FILM, 1/6W 470 OHM J
RB04	24011331	CHIP, METAL FILM, 1/20W 330 OH
RB05	24011105	CHIP, METAL FILM, 1/20W 1M OHM
RB06	24011123	CHIP, METAL FILM, 1/20W 12K OH
RB07	24011392	CHIP, METAL FILM, 1/20W 3.9K O
RB08	24011392	CHIP, METAL FILM, 1/20W 3.9K O
RB09	24011103	CHIP, METAL FILM, 1/20W 10K OH
RB09	24366470	CARBON FILM, 1/6W 47 OHM J
RB10	24011101	CHIP, METAL FILM, 1/20W 100 OH
RB10	24366101	CARBON FILM, 1/6W 100 OHM J

Location No.	Parts No.	Description
RB11	24011222	CHIP, METAL FILM, 1/20W 2.2K O
RB11	24366103	CARBON FILM, 1/6W 10K OHM J
RB12	24366471	CARBON FILM, 1/6W 470 OHM J
RB39	24011103	CHIP, METAL FILM, 1/20W 10K OH
RB43	24011103	CHIP, METAL FILM, 1/20W 10K OH
RB45	24011101	CHIP, METAL FILM, 1/20W 100 OH
RB60	24011103	CHIP, METAL FILM, 1/20W 10K OH
RB81	24011122	CHIP, METAL FILM, 1/20W 1.2K O
RB82	24011123	CHIP, METAL FILM, 1/20W 12K OH
RB83	24011123	CHIP, METAL FILM, 1/20W 12K OH
RB90	24011392	CHIP, METAL FILM, 1/20W 3.9K O
RB91	24011473	CHIP, METAL FILM, 1/20W 47K OH
RB92	24011271	CHIP, METAL FILM, 1/20W 270 OH
RB93	24011271	CHIP, METAL FILM, 1/20W 270 OH
RB94	24011222	CHIP, METAL FILM, 1/20W 2.2K O
RB95	24011222	CHIP, METAL FILM, 1/20W 2.2K O
RB96	24011273	CHIP, METAL FILM, 1/20W 27K OH
RB97	24011273	CHIP, METAL FILM, 1/20W 27K OH
RB98	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RB604	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RC01	24011681	CHIP, METAL FILM, 1/20W 680 OH
RC02	24011681	CHIP, METAL FILM, 1/20W 680 OH
RC03	24011681	CHIP, METAL FILM, 1/20W 680 OH
RC04	24011681	CHIP, METAL FILM, 1/20W 680 OH
RC05	24011681	CHIP, METAL FILM, 1/20W 680 OH
RC06	24011681	CHIP, METAL FILM, 1/20W 680 OH
RC07	24011681	CHIP, METAL FILM, 1/20W 680 OH
RC08	24011681	CHIP, METAL FILM, 1/20W 680 OH
RC60	24366681	CARBON FILM, 1/6W 680 OHM J
RC61	24366681	CARBON FILM, 1/6W 680 OHM J
RR01	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RR02	24011104	CHIP, METAL FILM, 1/20W 100K O
RR03	24011222	CHIP, METAL FILM, 1/20W 2.2K O
RR04	24011101	CHIP, METAL FILM, 1/20W 100 OH
RR05	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RR06	24011223	CHIP, METAL FILM, 1/20W 22K OH
RR07	24011152	CHIP, METAL FILM, 1/20W 1.5K O
RR09	24000445	CHIP JUMPER, 1608TYPE
RR10	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RR11	24011681	CHIP, METAL FILM, 1/20W 680 OH
RR12	24011152	CHIP, METAL FILM, 1/20W 1.5K O
RR13	24011152	CHIP, METAL FILM, 1/20W 1.5K O
RR15	24011391	CHIP, METAL FILM, 1/20W 390 OH
RR16	24011391	CHIP, METAL FILM, 1/20W 390 OH
RR17	24011391	CHIP, METAL FILM, 1/20W 390 OH
RR18	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RR22	24011103	CHIP, METAL FILM, 1/20W 10K OH
RR23	24011103	CHIP, METAL FILM, 1/20W 10K OH
RR35	24011392	CHIP, METAL FILM, 1/20W 3.9K O
RR36	24011392	CHIP, METAL FILM, 1/20W 3.9K O
RR37	24011392	CHIP, METAL FILM, 1/20W 3.9K O
RR40	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RR48	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RR61	24011222	CHIP, METAL FILM, 1/20W 2.2K O
RR63	24011332	CHIP, METAL FILM, 1/20W 3.3K O
RR64	24011152	CHIP, METAL FILM, 1/20W 1.5K O
RR65	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RR68	24011332	CHIP, METAL FILM, 1/20W 3.3K O
RR69	24011152	CHIP, METAL FILM, 1/20W 1.5K O
RR70	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RR74	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RR75	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RR85	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RR86	24011152	CHIP, METAL FILM, 1/20W 1.5K O
RR87	24011332	CHIP, METAL FILM, 1/20W 3.3K O

Location No.	Parts No.	Description
RR88	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RS01	24011271	CHIP, METAL FILM, 1/20W 270 OH
RS02	24011271	CHIP, METAL FILM, 1/20W 270 OH
RS03	24011562	CHIP, METAL FILM, 1/20W 5.6K O
RS04	24011562	CHIP, METAL FILM, 1/20W 5.6K O
RS05	24011562	CHIP, METAL FILM, 1/20W 5.6K O
RS06	24011562	CHIP, METAL FILM, 1/20W 5.6K O
RS07	24011562	CHIP, METAL FILM, 1/20W 5.6K O
RS08	24011562	CHIP, METAL FILM, 1/20W 5.6K O
RS09	24011562	CHIP, METAL FILM, 1/20W 5.6K O
RS10	24011562	CHIP, METAL FILM, 1/20W 5.6K O
RS11	24011562	CHIP, METAL FILM, 1/20W 5.6K O
RS12	24011562	CHIP, METAL FILM, 1/20W 5.6K O
RS13	24011101	CHIP, METAL FILM, 1/20W 100 OH
RS14	24011101	CHIP, METAL FILM, 1/20W 100 OH
RS15	24011104	CHIP, METAL FILM, 1/20W 100K O
RS16	24011104	CHIP, METAL FILM, 1/20W 100K O
RS17	24011223	CHIP, METAL FILM, 1/20W 22K OH
RS18	24011223	CHIP, METAL FILM, 1/20W 22K OH
RS19	24011681	CHIP, METAL FILM, 1/20W 680 OH
RS20	24011681	CHIP, METAL FILM, 1/20W 680 OH
RS21	24011222	CHIP, METAL FILM, 1/20W 2.2K O
RS22	24011222	CHIP, METAL FILM, 1/20W 2.2K O
RS23	24011223	CHIP, METAL FILM, 1/20W 22K OH
RS24	24011223	CHIP, METAL FILM, 1/20W 22K OH
RS25	24011223	CHIP, METAL FILM, 1/20W 22K OH
RS26	24011223	CHIP, METAL FILM, 1/20W 22K OH
RS27	24011223	CHIP, METAL FILM, 1/20W 22K OH
RS28	24011223	CHIP, METAL FILM, 1/20W 22K OH
RS29	24011681	CHIP, METAL FILM, 1/20W 680 OH
RS30	24011681	CHIP, METAL FILM, 1/20W 680 OH
RS31	24011223	CHIP, METAL FILM, 1/20W 22K OH
RS32	24011223	CHIP, METAL FILM, 1/20W 22K OH
RS33	24011223	CHIP, METAL FILM, 1/20W 22K OH
RS34	24011223	CHIP, METAL FILM, 1/20W 22K OH
RS49	24011271	CHIP, METAL FILM, 1/20W 270 OH
RS50	24011271	CHIP, METAL FILM, 1/20W 270 OH
RS51	24011104	CHIP, METAL FILM, 1/20W 100K O
RS52	24011104	CHIP, METAL FILM, 1/20W 100K O
RS53	24011223	CHIP, METAL FILM, 1/20W 22K OH
RS54	24011223	CHIP, METAL FILM, 1/20W 22K OH
RS55	24011103	CHIP, METAL FILM, 1/20W 10K OH
RS56	24011104	CHIP, METAL FILM, 1/20W 100K O
RT01	24011101	CHIP, METAL FILM, 1/20W 100 OH
RT02	24011101	CHIP, METAL FILM, 1/20W 100 OH
RT03	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RT04	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RT05	24011100	CHIP, METAL FILM, 1/20W 10 OHM
RT06	24011332	CHIP, METAL FILM, 1/20W 3.3K O
RT07	24011473	CHIP, METAL FILM, 1/20W 47K OH
RT08	24011473	CHIP, METAL FILM, 1/20W 47K OH
RT09	24011332	CHIP, METAL FILM, 1/20W 3.3K O
RT10	24011222	CHIP, METAL FILM, 1/20W 2.2K O
RT11	24011332	CHIP, METAL FILM, 1/20W 3.3K O
RT12	24011222	CHIP, METAL FILM, 1/20W 2.2K O
RT13	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RT14	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RT15	24011473	CHIP, METAL FILM, 1/20W 47K OH
RT16	24011473	CHIP, METAL FILM, 1/20W 47K OH
RT18	24011223	CHIP, METAL FILM, 1/20W 22K OH
RT19	24000445	CHIP JUMPER, 1608TYPE
RT20	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RT21	24011332	CHIP, METAL FILM, 1/20W 3.3K O
RT22	24011222	CHIP, METAL FILM, 1/20W 2.2K O
RT23	24000445	CHIP JUMPER, 1608TYPE

Location No.	Parts No.	Description
RT24	24000594	CHIP, 1/16W 12K OHM F
RT26	24011472	CHIP, METAL FILM, 1/20W 4.7K O
RT27	24000594	CHIP, 1/16W 12K OHM F
RT28	24011101	CHIP, METAL FILM, 1/20W 100 OH
RT29	24011101	CHIP, METAL FILM, 1/20W 100 OH
RT30	24011473	CHIP, METAL FILM, 1/20W 47K OH
RT31	24011103	CHIP, METAL FILM, 1/20W 10K OH
RT32	24011103	CHIP, METAL FILM, 1/20W 10K OH
RT33	24011472	CHIP, METAL FILM, 1/20W 4.7K O
RT34	24011222	CHIP, METAL FILM, 1/20W 2.2K O
RT35	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RT37	24011101	CHIP, METAL FILM, 1/20W 100 OH
RT38	24011151	CHIP, METAL FILM, 1/20W 150 OH
RT39	24011561	CHIP, METAL FILM, 1/20W 560 OH
RT40	24011151	CHIP, METAL FILM, 1/20W 150 OH
RT42	24011470	CHIP, METAL FILM, 1/20W 47 OHM
RT43	24011151	CHIP, METAL FILM, 1/20W 150 OH
RT44	24011103	CHIP, METAL FILM, 1/20W 10K OH
RV07	24011103	CHIP, METAL FILM, 1/20W 10K OH
RV08	24011103	CHIP, METAL FILM, 1/20W 10K OH
RV09	24011101	CHIP, METAL FILM, 1/20W 100 OH
RV10	24011101	CHIP, METAL FILM, 1/20W 100 OH
RV22	24011222	CHIP, METAL FILM, 1/20W 2.2K O
RV23	24552101	OXIDE METAL FILM, 1/2W 100 OHM
RV24	24011181	CHIP, METAL FILM, 1/20W 180 OH
RV25	24011101	CHIP, METAL FILM, 1/20W 100 OH
RV26	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RV27	24872750	CHIP, METAL FILM, 1/16W 75 OHM
RV28	24011562	CHIP, METAL FILM, 1/20W 5.6K O
RV29	24011103	CHIP, METAL FILM, 1/20W 10K OH
RV30	24872750	CHIP, METAL FILM, 1/16W 75 OHM
RV32	24872750	CHIP, METAL FILM, 1/16W 75 OHM
RV33	24011562	CHIP, METAL FILM, 1/20W 5.6K O
RV34	24011562	CHIP, METAL FILM, 1/20W 5.6K O
RV37	24872750	CHIP, METAL FILM, 1/16W 75 OHM
RV38	24872750	CHIP, METAL FILM, 1/16W 75 OHM
RV40	24011332	CHIP, METAL FILM, 1/20W 3.3K O
RV41	24011222	CHIP, METAL FILM, 1/20W 2.2K O
RV42	24011101	CHIP, METAL FILM, 1/20W 100 OH
RV43	24011152	CHIP, METAL FILM, 1/20W 1.5K O
RV44	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RV45	24011222	CHIP, METAL FILM, 1/20W 2.2K O
RV45	24366683	CARBON FILM, 1/6W 68K OHM J
RV46	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RV46	24366750	CARBON FILM, 1/6W 75 OHM J
RV47	24366750	CARBON FILM, 1/6W 75 OHM J
RV61	24552101	OXIDE METAL FILM, 1/2W 100 OHM
RV62	24011101	CHIP, METAL FILM, 1/20W 100 OH
RV63	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RV64	24872750	CHIP, METAL FILM, 1/16W 75 OHM
RV65	24552101	OXIDE METAL FILM, 1/2W 100 OHM
RV66	24872750	CHIP, METAL FILM, 1/16W 75 OHM
RV67	24011102	CHIP, METAL FILM, 1/20W 1K OHM
RV68	24011101	CHIP, METAL FILM, 1/20W 100 OH
RV76	24011103	CHIP, METAL FILM, 1/20W 10K OH
RV81	24872750	CHIP, METAL FILM, 1/16W 75 OHM
RV85	24872750	CHIP, METAL FILM, 1/16W 75 OHM
RV86	24872750	CHIP, METAL FILM, 1/16W 75 OHM
RV87	24872750	CHIP, METAL FILM, 1/16W 75 OHM
RV88	24872151	CHIP, METAL FILM, 1/16W 150 OH
RV89	24872151	CHIP, METAL FILM, 1/16W 150 OH
RV94	24011750	CHIP, METAL FILM, 1/20W 75 OHM
RV95	24011750	CHIP, METAL FILM, 1/20W 75 OHM
RV96	24011750	CHIP, METAL FILM, 1/20W 75 OHM
RW02	24872563	CHIP, METAL FILM, 1/16W 56K OH

Location No.	Parts No.	Description
RW02	24366271	CARBON FILM, 1/6W 270 OHM J
RW03	24872393	CHIP, METAL FILM, 1/16W 39K OH
RW04	24872560	CHIP, METAL FILM, 1/16W 56 OHM
RW05	24872102	CHIP, METAL FILM, 1/16W 1K OHM
RW06	24872151	CHIP, METAL FILM, 1/16W 150 OH
RW07	24872222	CHIP, METAL FILM, 1/16W 2.2K O
RW08	24872821	CHIP, METAL FILM, 1/16W 820 OH
RW09	24872560	CHIP, METAL FILM, 1/16W 56 OHM
RW09	24366563	CARBON FILM, 1/6W 56K OHM J
RW10	24872152	CHIP, METAL FILM, 1/16W 1.5K O
RW11	24872561	CHIP, METAL FILM, 1/16W 560 OH
RW12	24872272	CHIP, METAL FILM, 1/16W 2.7K O
RW13	24872821	CHIP, METAL FILM, 1/16W 820 OH
RW13	24366393	CARBON FILM, 1/6W 39K OHM J
RW14	24872560	CHIP, METAL FILM, 1/16W 56 OHM
RW14	24552121	OXIDE METAL FILM, 1/2W 120 OHM
RW15	24872152	CHIP, METAL FILM, 1/16W 1.5K O
RW15	24366473	CARBON FILM, 1/6W 47K OHM J
RW16	24872561	CHIP, METAL FILM, 1/16W 560 OH
RW16	24366273	CARBON FILM, 1/6W 27K OHM J
RW17	24872272	CHIP, METAL FILM, 1/16W 2.7K O
RW17	24366333	CARBON FILM, 1/6W 33K OHM J
RW18	24872821	CHIP, METAL FILM, 1/16W 820 OH
RW18	24366101	CARBON FILM, 1/6W 100 OHM J
RW19	24366100	CARBON FILM, 1/6W 10 OHM J
RW20	24872101	CHIP, METAL FILM, 1/16W 100 OH
RW20	24366392	CARBON FILM, 1/6W 3.9K OHM J
RW21	24872102	CHIP, METAL FILM, 1/16W 1K OHM
RW22	24872101	CHIP, METAL FILM, 1/16W 100 OH
RW22	24366102	CARBON FILM, 1/6W 1K OHM J
RW23	24872821	CHIP, METAL FILM, 1/16W 820 OH
RW23	24366101	CARBON FILM, 1/6W 100 OHM J
RW24	24872821	CHIP, METAL FILM, 1/16W 820 OH
RW24	24366331	CARBON FILM, 1/6W 330 OHM J
RW25	24872101	CHIP, METAL FILM, 1/16W 100 OH
RW25	24366182	CARBON FILM, 1/6W 1.8K OHM J
RW26	24872101	CHIP, METAL FILM, 1/16W 100 OH
RW27	24872102	CHIP, METAL FILM, 1/16W 1K OHM
RW28	24872271	CHIP, METAL FILM, 1/16W 270 OH
RW29	24872392	CHIP, METAL FILM, 1/16W 3.9K O
RW30	24872152	CHIP, METAL FILM, 1/16W 1.5K O
RW30	24552100	OXIDE METAL FILM, 1/2W 10 OHM
RW31	24872101	CHIP, METAL FILM, 1/16W 100 OH
RW31	24552331	OXIDE METAL FILM, 1/2W 330 OHM
RW32	24872101	CHIP, METAL FILM, 1/16W 100 OH
RW32	24366820	CARBON FILM, 1/6W 82 OHM J
RW33	24872102	CHIP, METAL FILM, 1/16W 1K OHM
RW33	24366683	CARBON FILM, 1/6W 68K OHM J
RW34	24872271	CHIP, METAL FILM, 1/16W 270 OH
RW34	24366820	CARBON FILM, 1/6W 82 OHM J
RW35	24872392	CHIP, METAL FILM, 1/16W 3.9K O
RW35	24366683	CARBON FILM, 1/6W 68K OHM J
RW36	24872152	CHIP, METAL FILM, 1/16W 1.5K O
RW36	24366330	CARBON FILM, 1/6W 33 OHM J
RW37	24872101	CHIP, METAL FILM, 1/16W 100 OH
RW37	24366152	CARBON FILM, 1/6W 1.5K OHM J
RW38	24366102	CARBON FILM, 1/6W 1K OHM J
RW39	24366152	CARBON FILM, 1/6W 1.5K OHM J
RW40	24366330	CARBON FILM, 1/6W 33 OHM J
RW41	24872101	CHIP, METAL FILM, 1/16W 100 OH
RW41	24366279	CARBON FILM, 1/6W 2.7 OHM J
RW42	24872101	CHIP, METAL FILM, 1/16W 100 OH
RW42	24366279	CARBON FILM, 1/6W 2.7 OHM J
RW43	24872182	CHIP, METAL FILM, 1/16W 1.8K O
RW43	24554221	OXIDE METAL FILM, 2W 220 OHM J

Location No.	Parts No.	Description
RW44	24872181	CHIP, METAL FILM, 1/16W 180 OH
RW44	24366122	CARBON FILM, 1/6W 1.2K OHM J
RW45	24366122	CARBON FILM, 1/6W 1.2K OHM J
RW46	24872101	CHIP, METAL FILM, 1/16W 100 OH
RW47	24872222	CHIP, METAL FILM, 1/16W 2.2K O
RW60	24000824	CHIP JUMPER, 2125TYPE
RW61	24872472	CHIP, METAL FILM, 1/16W 4.7K O
RW62	24872622	CHIP, METAL FILM, 1/16W 6.2K O
RW63	24872101	CHIP, METAL FILM, 1/16W 100 OH
RW64	24872101	CHIP, METAL FILM, 1/16W 100 OH
RW65	24872101	CHIP, METAL FILM, 1/16W 100 OH
RW66	24872681	CHIP, METAL FILM, 1/16W 680 OH
RW67	24872222	CHIP, METAL FILM, 1/16W 2.2K O
RW68	24872222	CHIP, METAL FILM, 1/16W 2.2K O
RW69	24872222	CHIP, METAL FILM, 1/16W 2.2K O
RW70	24872333	CHIP, METAL FILM, 1/16W 33K OH
RW71	24872182	CHIP, METAL FILM, 1/16W 1.8K O
RW72	24872182	CHIP, METAL FILM, 1/16W 1.8K O
RW73	24872103	CHIP, METAL FILM, 1/16W 10K OH
RW74	24872332	CHIP, METAL FILM, 1/16W 3.3K O
RW76	24872182	CHIP, METAL FILM, 1/16W 1.8K O
RW77	24000824	CHIP JUMPER, 2125TYPE
RW78	24000824	CHIP JUMPER, 2125TYPE
RW79	24000824	CHIP JUMPER, 2125TYPE
RW80	24872331	CHIP, METAL FILM, 1/16W 330 OH
RW81	24872331	CHIP, METAL FILM, 1/16W 330 OH
RW82	24872102	CHIP, METAL FILM, 1/16W 1K OHM
RW83	24872103	CHIP, METAL FILM, 1/16W 10K OH
RW84	24872102	CHIP, METAL FILM, 1/16W 1K OHM
RW85	24000824	CHIP JUMPER, 2125TYPE
RW89	24872102	CHIP, METAL FILM, 1/16W 1K OHM
RW90	24000824	CHIP JUMPER, 2125TYPE
RW91	24872103	CHIP, METAL FILM, 1/16W 10K OH
RW92	24872103	CHIP, METAL FILM, 1/16W 10K OH
RW93	24872101	CHIP, METAL FILM, 1/16W 100 OH
RW94	24872101	CHIP, METAL FILM, 1/16W 100 OH
RW95	24872101	CHIP, METAL FILM, 1/16W 100 OH
RW96	24872102	CHIP, METAL FILM, 1/16W 1K OHM
RW100	24872563	CHIP, METAL FILM, 1/16W 56K OH
RW101	24872393	CHIP, METAL FILM, 1/16W 39K OH
RW102	24872563	CHIP, METAL FILM, 1/16W 56K OH
RW103	24872393	CHIP, METAL FILM, 1/16W 39K OH
RW104	24872682	CHIP, METAL FILM, 1/16W 6.8K O
RW105	24872392	CHIP, METAL FILM, 1/16W 3.9K O
RW107	24872103	CHIP, METAL FILM, 1/16W 10K OH
RW108	24872333	CHIP, METAL FILM, 1/16W 33K OH
RW109	24872103	CHIP, METAL FILM, 1/16W 10K OH
RW110	24872333	CHIP, METAL FILM, 1/16W 33K OH
RW114	24872563	CHIP, METAL FILM, 1/16W 56K OH
RW116	24872222	CHIP, METAL FILM, 1/16W 2.2K O
COILS and TRANFORMERS		
L101	23221803	COIL, CHOKE, TLN3040D
L201	23289840	COIL, PEAKING, TRF4100AT
L302	23248073	COIL, CHOKE, TLN3299D
L303	23248073	COIL, CHOKE, TLN3299D
L304	23103859	FILTER, FERRITE CHOKE, TEM2011
L310	23237975	COIL, PEAKING, TRF4101AC
L311	23237975	COIL, PEAKING, TRF4101AC
L401	23289560	COIL, PEAKING, TRF4560AF
L402	23248244	COIL, CHOKE, TLN3497AH
L404	23248242	COIL, CHOKE, TLN3495AH
L405	23221076	COIL, CHOKE, TLN1015R
L406	23248243	COIL, CHOKE, TLN3496AH
L407	23103248	FERRITR CHOKE, TEM2014AA

Location No.	Parts No.	Description
L408	23103248	FERRITR CHOKE, TEM2014AA
L409	23237975	COIL, PEAKING, TRF4101AC
L441	23233052	COIL, HORIZ LINEARITY, TLN2203AT
L462	23231220	COIL, DY&CONVER MIX YOKE, TDY707JT(R)
L463	23231220	COIL, DY&CONVER MIX YOKE, TDY707JT(R)
L464	23231220	COIL, DY&CONVER MIX YOKE, TDY707JT(R)
L472	23102441	MAGNET, CONVERGENCE, MAG1094
L473	23102441	MAGNET, CONVERGENCE, MAG1094
L474	23102441	MAGNET, CONVERGENCE, MAG1094
L501	23289470	COIL, PEAKING, TRF4470AF
L503	23289844	COIL, PEAKING, TRF4470AT
L504	23238714	COIL, PEAKING, TRF4100AJ
L505	23289840	COIL, PEAKING, TRF4100AT
L700	23103880	COIL, CHOKE, TEM2011Y
L701	23103866	FILTER, TEM2105T
L702	23103866	FILTER, TEM2105T
L711	23238562	COIL, PEAKING, TRF4109AJ
L712	23238562	COIL, PEAKING, TRF4109AJ
L713	23238562	COIL, PEAKING, TRF4109AJ
L714	23238562	COIL, PEAKING, TRF4109AJ
L720	23289102	COIL, PEAKING, TRF4102AF
L721	23237805	COIL, PEAKING, TRF4222AC
L722	23289102	COIL, PEAKING, TRF4102AF
L723	23237805	COIL, PEAKING, TRF4222AC
L724	23289102	COIL, PEAKING, TRF4102AF
L725	23237805	COIL, PEAKING, TRF4222AC
L726	23289102	COIL, PEAKING, TRF4102AF
L727	23237805	COIL, PEAKING, TRF4222AC
L728	23289102	COIL, PEAKING, TRF4102AF
L729	23237805	COIL, PEAKING, TRF4222AC
L730	23289102	COIL, PEAKING, TRF4102AF
L731	23237805	COIL, PEAKING, TRF4222AC
L737	23289560	COIL, PEAKING, TRF4560AF
L738	23289560	COIL, PEAKING, TRF4560AF
L739	23289560	COIL, PEAKING, TRF4560AF
L740	23289560	COIL, PEAKING, TRF4560AF
L753	23103866	FILTER, TEM2105T
L754	23103866	FILTER, TEM2105T
L803	23103894	FILTER, FERRITE BEAD, TEM2011AW
L804	23103894	FILTER, FERRITE BEAD, TEM2011AW
L823	23248073	COIL, CHOKE, TLN3299D
L824	23248073	COIL, CHOKE, TLN3299D
L839	23289842	COIL, PEAKING, TRF4220AT
L853	23248195	COIL, CHOKE, TLN3441AT
L853	23248073	COIL, CHOKE, TLN3299D
L854	23248195	COIL, CHOKE, TLN3441AT
L856	23103894	FILTER, FERRITE BEAD, TEM2011AW
L857	23103894	FILTER, FERRITE BEAD, TEM2011AW
L858	23103894	FILTER, FERRITE BEAD, TEM2011AW
L859	23103894	FILTER, FERRITE BEAD, TEM2011AW
L860	23280018	COIL, PEAKING, TRF4220AZ
L861	23103894	FILTER, FERRITE BEAD, TEM2011AW
L862	23248073	COIL, CHOKE, TLN3299D
L863	23103894	FILTER, FERRITE BEAD, TEM2011AW
L866	23248073	COIL, CHOKE, TLN3299D
L868	23103894	FILTER, FERRITE BEAD, TEM2011AW
L869	23103894	FILTER, FERRITE BEAD, TEM2011AW
L871	70211045	COIL, CHOKE, 0.02MH-2.5, 20MMH
L961	23289100	COIL, PEAKING, TRF4100AF
L962	23237991	COIL, PEAKING, TRF4479AC
L963	23237975	COIL, PEAKING, TRF4101AC
L4471	23289840	COIL, PEAKING, TRF4100AT
L7701	23103894	FILTER, FERRITE BEAD, TEM2011AW
L7702	23103894	FILTER, FERRITE BEAD, TEM2011AW
L7703	23103894	FILTER, FERRITE BEAD, TEM2011AW

Location No.	Parts No.	Description
L7704	23103894	FILTER, FERRITE BEAD, TEM2011AW
L7705	23103894	FILTER, FERRITE BEAD, TEM2011AW
L7706	23103894	FILTER, FERRITE BEAD, TEM2011AW
LA01	23289840	COIL, PEAKING, TRF4100AT
LC01	23103828	INDUCTOR, BEAD, TEM2121M
LC02	23103828	INDUCTOR, BEAD, TEM2121M
LC03	23103828	INDUCTOR, BEAD, TEM2121M
LC04	23103828	INDUCTOR, BEAD, TEM2121M
LC05	23103828	INDUCTOR, BEAD, TEM2121M
LC06	23103828	INDUCTOR, BEAD, TEM2121M
LC07	23238562	COIL, PEAKING, TRF4109AJ
LC08	23238562	COIL, PEAKING, TRF4109AJ
LC09	23103828	INDUCTOR, BEAD, TEM2121M
LC10	23103828	INDUCTOR, BEAD, TEM2121M
LC11	23103828	INDUCTOR, BEAD, TEM2121M
LC11	23103852	COIL, FILTER, TEM2028AH
LC12	24000445	CHIP JUMPER, 1608TYPE
LC12	23238562	COIL, PEAKING, TRF4109AJ
LC43	23103828	INDUCTOR, BEAD, TEM2121M
LC45	23238562	COIL, PEAKING, TRF4109AJ
LG102	23103828	INDUCTOR, BEAD, TEM2121M
LR01	23289109	COIL, PEAKING, TRF41R0AF
LR02	23289109	COIL, PEAKING, TRF41R0AF
LR22	23103845	COIL, TEM2030AY
LR23	23103845	COIL, TEM2030AY
LT01	23103828	INDUCTOR, BEAD, TEM2121M
LT02	23103828	INDUCTOR, BEAD, TEM2121M
LT03	23103828	INDUCTOR, BEAD, TEM2121M
LT04	23103828	INDUCTOR, BEAD, TEM2121M
LT05	23103828	INDUCTOR, BEAD, TEM2121M
LT07	23103828	INDUCTOR, BEAD, TEM2121M
LT08	23103828	INDUCTOR, BEAD, TEM2121M
LT09	23103828	INDUCTOR, BEAD, TEM2121M
LT11	23103828	INDUCTOR, BEAD, TEM2121M
LT12	23103828	INDUCTOR, BEAD, TEM2121M
LV09	23289840	COIL, PEAKING, TRF4100AT
LV42	23289840	COIL, PEAKING, TRF4100AT
LV43	23289840	COIL, PEAKING, TRF4100AT
LV46	23103852	COIL, FILTER, TEM2028AH
LW01	23103806	INDUCTOR, BEAD, TEM2114T
LW02	23103806	INDUCTOR, BEAD, TEM2114T
LW02	23261974	COIL, FERRITE BEAD, HC5-035
LW03	23103806	INDUCTOR, BEAD, TEM2114T
LW04	24000824	CHIP JUMPER, 2125TYPE
LW04	23103859	FILTER, FERRITE CHOKE, TEM2011
LW05	23103822	INDUCTOR, BEAD, TEM2117T
LW05	23103859	FILTER, FERRITE CHOKE, TEM2011
LW06	23103822	INDUCTOR, BEAD, TEM2117T
LW07	23103822	INDUCTOR, BEAD, TEM2117T
LW08	23289100	COIL, PEAKING, TRF4100AF
LW09	23103822	INDUCTOR, BEAD, TEM2117T
LW10	23103806	INDUCTOR, BEAD, TEM2114T
LW12	23238718	COIL, PEAKING, TRF4479AJ
LW13	23238702	COIL, PEAKING, TRF4101AJ
LW14	23238702	COIL, PEAKING, TRF4101AJ
LW15	23238718	COIL, PEAKING, TRF4479AJ
LW16	23238718	COIL, PEAKING, TRF4479AJ
LW17	23238718	COIL, PEAKING, TRF4479AJ
LW41	23103806	INDUCTOR, BEAD, TEM2114T
LW42	23103806	INDUCTOR, BEAD, TEM2114T
LW80	23238562	COIL, PEAKING, TRF4109AJ
LW81	23238562	COIL, PEAKING, TRF4109AJ
T400	23224386	TRANSFORMER, FOCUS, TLN2220AH
T401	23224367	TRANSFORMER, HORIZ DRIVER, TLN1098AH
T461A	23192961	ANODE CAP ASSY, TCC5605AU

Location No.	Parts No.	Description
T801	23211736	COIL, LINE FILTER, TRF3231AL
T802	23217603	TRANSFORMER, CHOKE 52MH 1.05 TPW2049AT
T803	23217587	TRANSFORMER, POWER TPW1562BZ TPW1562BZ
⚠ T862	23217643	TRANSFORMER, CONVERTER TPW3447BS
SEMICONDUCTORS		
Q201	23314794	TRANSISTOR, 2PC1815Y
Q202	23114425	TRANSISTOR, 2SA1015-Y(TE
Q203	23114425	TRANSISTOR, 2SA1015-Y(TE
Q204	23114425	TRANSISTOR, 2SA1015-Y(TE
Q209	23205112	TRANSISTOR, 2SA1980UF-Y(
Q210	23205112	TRANSISTOR, 2SA1980UF-Y(
Q211	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q212	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q241	23114755	TRANSISTOR, 2SC2482FA-1
Q261	23205112	TRANSISTOR, 2SA1980UF-Y(
Q262	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q263	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q274	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q301	23319787	IC, LA7833S
Q301B	23035308	SCREW, 3X8MM, TAPPING
Q302	23905266	IC, TA8859CP
Q304	70119059	IC, OP AMP, TA75902P(J)
Q305	23205112	TRANSISTOR, 2SA1980UF-Y(
Q306	70119059	IC, OP AMP, TA75902P(J)
Q307	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q370	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q371	23205112	TRANSISTOR, 2SA1980UF-Y(
Q372	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q381	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q400	23205079	TRANSISTOR, 2SC4686A
Q402	23114755	TRANSISTOR, 2SC2482FA-1
Q404	23314955	TRANSISTOR, 2SD2553(FA)
Q404D	72471082	SCREW, 3X10MM
Q405	23114437	TRANSISTOR, 2SC752GTM-Y
Q406	23114437	TRANSISTOR, 2SC752GTM-Y
Q407	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q408	23205112	TRANSISTOR, 2SA1980UF-Y(
Q409	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q420	23114756	TRANSISTOR, 2SC2482
Q425	23205031	TRANSISTOR, FET, 2SK2920
Q426	23119747	IC, OPE AMP, TA75358P
Q427	70128158	IC, BA10393
Q482	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q492	23314359	TRANSISTOR, 2SA1321(FA, C)
Q501	23000624	IC, TB1274F(J)
Q504	23205112	TRANSISTOR, 2SA1980UF-Y(
Q505	23205112	TRANSISTOR, 2SA1980UF-Y(
Q506	23314794	TRANSISTOR, 2PC1815Y
Q510	23906472	IC, TA1276AN
Q520	23205014	TRANSISTOR, 2SC4667-O
Q521	23114501	TRANSISTOR, RN1402
Q522	23205112	TRANSISTOR, 2SA1980UF-Y(
Q523	23205112	TRANSISTOR, 2SA1980UF-Y(
Q524	23205014	TRANSISTOR, 2SC4667-O
Q610	23000269	IC, TA8216H
Q610B	23035308	SCREW, 3X8MM, TAPPING
Q611	70114396	TRANSISTOR, 2SC3326B
Q612	70114396	TRANSISTOR, 2SC3326B
Q614	23114499	TRANSISTOR, RN1404
Q615	23205112	TRANSISTOR, 2SA1980UF-Y(
Q616	23205112	TRANSISTOR, 2SA1980UF-Y(
Q617	23119690	IC, OP AMP, TA75458P

Location No.	Parts No.	Description
Q618	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q619	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q620	23114493	TRANSISTOR, RN2404
Q621	70114396	TRANSISTOR, 2SC3326B
Q624	70114396	TRANSISTOR, 2SC3326B
Q625	23114493	TRANSISTOR, RN2404
Q626	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q701	23000380	IC, TC190C060AF-301(Z)
Q703	23905014	IC, LC78816M
Q704	23905014	IC, LC78816M
Q705	23905014	IC, LC78816M
Q707	23905013	IC, TLC2932IPW
Q709	23906908	IC, MC33078D
Q711	23009328	IC, AT24C16-10PI-2.7
Q711	23009647	IC, AT24C16A-10PI
Q712	23009328	IC, AT24C16-10PI-2.7
Q712	23009647	IC, AT24C16A-10PI
Q713	23009328	IC, AT24C16-10PI-2.7
Q713	23009647	IC, AT24C16A-10PI
Q714	23318977	IC, MC14052BF
Q715	23906908	IC, MC33078D
Q717	23906908	IC, MC33078D
Q719	23906908	IC, MC33078D
Q750	23000928	IC, SLA4501M
Q750B	23035310	SCREW
Q751	23000928	IC, SLA4501M
Q751B	23035310	SCREW
Q753	23000928	IC, SLA4501M
Q753B	23035310	SCREW
Q754	23319867	IC, NJM7805FA
Q755	23319888	IC, NJM7809FA
Q756	23319247	IC, MC7912CT
Q756B	23035310	SCREW
Q761	70128158	IC, BA10393
Q762	23000044	IC, TC4066BP(N)
Q764	23319372	IC, TC74HC14AP
Q767	23000044	IC, TC4066BP(N)
Q798	23314993	TRANSISTOR, 2SC4081 Q
Q801	23906540	IC, STR-Z4267
Q810	23904268	IC, PQ05RR1
Q810B	70391355	SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN
Q819	23114433	TRANSISTOR, 2SC1815-Y
Q830	23114433	TRANSISTOR, 2SC1815-Y
Q830	23905977	IC, PQ09RD11
Q832	23905976	IC, PQ05RD11
Q832B	70391355	SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN
Q843	23114433	TRANSISTOR, 2SC1815-Y
⚠ Q862	23904427	IC, PHOTO COUPLER, TLP621(GR-LF2
Q863	23319305	IC, SE140N
Q901	23314971	TRANSISTOR, 2SC5360(FA)
Q901B	23035308	SCREW, 3X8MM, TAPPING
Q902	23114433	TRANSISTOR, 2SC1815-Y
Q911	23314971	TRANSISTOR, 2SC5360(FA)
Q911B	23035308	SCREW, 3X8MM, TAPPING
Q913	23114433	TRANSISTOR, 2SC1815-Y
Q921	23314971	TRANSISTOR, 2SC5360(FA)
Q921B	23035308	SCREW, 3X8MM, TAPPING
Q922	23114433	TRANSISTOR, 2SC1815-Y
Q961	23114433	TRANSISTOR, 2SC1815-Y
Q962	23114422	TRANSISTOR, 2SA562TM-Y
Q963	23114433	TRANSISTOR, 2SC1815-Y
Q964	23114425	TRANSISTOR, 2SA1015-Y(TE
Q965	23114433	TRANSISTOR, 2SC1815-Y

Location No.	Parts No.	Description
Q966	23114425	TRANSISTOR, 2SA1015-Y(TE
Q4451	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q4452	23114497	TRANSISTOR, RN1406
Q4453	23114497	TRANSISTOR, RN1406
Q4454	23114497	TRANSISTOR, RN1406
Q4471	23314794	TRANSISTOR, 2PC1815Y
Q830B	70391355	SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN
Q9601	23114425	TRANSISTOR, 2SA1015-Y(TE
Q9602	23114425	TRANSISTOR, 2SA1015-Y(TE
Q9605	23114433	TRANSISTOR, 2SC1815-Y
Q9606	23114425	TRANSISTOR, 2SA1015-Y(TE
QA01	23009139	IC, 8BIT MICRO COMPUTER 64PIN CXP750010-187
QA02	23009330	IC, AT24C64-10PI-2.7
QA02	23009649	IC, AT24C64A-10PI
QA05	23205014	TRANSISTOR, 2SC4667-O
QA60	23205116	TRANSISTOR, 2SC5343UF-Y(B
QA61	23009332	IC, AT24C256-2.7
QB01	23314791	TRANSISTOR, 2PA1015Y
QB04	23205112	TRANSISTOR, 2SA1980UF-Y(
QB05	23205116	TRANSISTOR, 2SC5343UF-Y(B
QB06	23205112	TRANSISTOR, 2SA1980UF-Y(
QB81	70114396	TRANSISTOR, 2SC3326B
QB82	70114396	TRANSISTOR, 2SC3326B
QB83	23205112	TRANSISTOR, 2SA1980UF-Y(
QB92	23205116	TRANSISTOR, 2SC5343UF-Y(B
QB93	23205112	TRANSISTOR, 2SA1980UF-Y(
QB94	23205112	TRANSISTOR, 2SA1980UF-Y(
QB95	23205112	TRANSISTOR, 2SA1980UF-Y(
QB96	23205112	TRANSISTOR, 2SA1980UF-Y(
QR01	23009037	IC, MB90096P-G-23
QR03	23205112	TRANSISTOR, 2SA1980UF-Y(
QR35	23205116	TRANSISTOR, 2SC5343UF-Y(B
QR36	23205116	TRANSISTOR, 2SC5343UF-Y(B
QR38	23205116	TRANSISTOR, 2SC5343UF-Y(B
QR40	23205116	TRANSISTOR, 2SC5343UF-Y(B
QS01	70114396	TRANSISTOR, 2SC3326B
QS02	70114396	TRANSISTOR, 2SC3326B
QS03	23205116	TRANSISTOR, 2SC5343UF-Y(B
QS04	23205116	TRANSISTOR, 2SC5343UF-Y(B
QS05	70114396	TRANSISTOR, 2SC3326B
QS06	70114396	TRANSISTOR, 2SC3326B
QS07	70114396	TRANSISTOR, 2SC3326B
QS08	70114396	TRANSISTOR, 2SC3326B
QS09	23114493	TRANSISTOR, RN2404
QT01	23009169	IC, SAA5665HL/M1/0606
QT02	23314993	TRANSISTOR, 2SC4081 Q
QT03	70114402	TRANSISTOR, 2SC3437-Y
QT05	23314993	TRANSISTOR, 2SC4081 Q
QT06	23000283	IC, R1121N
QT07	23000816	IC, IC63LV1024-12TT/R
QT08	23314993	TRANSISTOR, 2SC4081 Q
QT10	23314993	TRANSISTOR, 2SC4081 Q
QT11	23009114	IC, BD4746G
QT12	23314994	TRANSISTOR, 2SA1576A106
QT13	23314994	TRANSISTOR, 2SA1576A106
QT14	23314994	TRANSISTOR, 2SA1576A106
QT15	23314994	TRANSISTOR, 2SA1576A106
QV01	23000368	IC, MM1495XF
QV02	23205116	TRANSISTOR, 2SC5343UF-Y(B
QV03	23205116	TRANSISTOR, 2SC5343UF-Y(B
QV04	23205116	TRANSISTOR, 2SC5343UF-Y(B
QV05	23205112	TRANSISTOR, 2SA1980UF-Y(
QV09	23314794	TRANSISTOR, 2PC1815Y

Location No.	Parts No.	Description
QV12	23314794	TRANSISTOR, 2PC1815Y
QV14	23314794	TRANSISTOR, 2PC1815Y
QW01	23906336	IC, TC90A18AF(BH,DRY)
QW02	23905013	IC, TLC2932IPW
QW03	23318825	IC, TC7S32F
QW04	23318823	IC, TC7S04F
QW05	23318825	IC, TC7S32F
QW06	23904396	IC, TC7S14F
QW06	23114433	TRANSISTOR, 2SC1815-Y
QW07	23904122	IC, TC7S86F
QW07	23114437	TRANSISTOR, 2SC752GTM-Y
QW09	23114433	TRANSISTOR, 2SC1815-Y
QW10	23314204	TRANSISTOR, 2SC2412K,Q
QW10	23114425	TRANSISTOR, 2SA1015-Y(TE
QW11	23314204	TRANSISTOR, 2SC2412K,Q
QW12	23314204	TRANSISTOR, 2SC2412K,Q
QW13	23314204	TRANSISTOR, 2SC2412K,Q
QW14	23314204	TRANSISTOR, 2SC2412K,Q
QW15	23314204	TRANSISTOR, 2SC2412K,Q
QW18	23314204	TRANSISTOR, 2SC2412K,Q
QW19	23114433	TRANSISTOR, 2SC1815-Y
QW20	23314204	TRANSISTOR, 2SC2412K,Q
QW20	23114433	TRANSISTOR, 2SC1815-Y
QW21	23314163	TRANSISTOR, 2SA1162-Y
QW22	23314204	TRANSISTOR, 2SC2412K,Q
QW23	23314163	TRANSISTOR, 2SA1162-Y
QW24	23314204	TRANSISTOR, 2SC2412K,Q
QW25	23314163	TRANSISTOR, 2SA1162-Y
QW31	23906295	IC, UPC29M33HB
QW32	70114402	TRANSISTOR, 2SC3437-Y
QW40	23314163	TRANSISTOR, 2SA1162-Y
QW41	23314163	TRANSISTOR, 2SA1162-Y
QW42	23314163	TRANSISTOR, 2SA1162-Y
QW43	23314202	TRANSISTOR, 2SA1037K, Q, 23205045 NI HENKOU
QW51	23314909	TRANSISTOR, 2SA1837
QW51B	23035308	SCREW, 3X8MM, TAPPING
QW52	23314912	TRANSISTOR, 2SC4793
QW52B	23035308	SCREW, 3X8MM, TAPPING
D101	23316755	DIODE, ZENER, MTZJ33C
D201	23316231	DIODE, 1SS355
D301	23357169	DIODE, ZENER, UDZS6.8B
D302	23357365	DIODE, 1N4004A-B5
D304	23316794	DIODE, SC570A
D305	23357365	DIODE, 1N4004A-B5
D306	23357365	DIODE, 1N4004A-B5
D308	23316583	DIODE, ZENER, MA8039-H
D310	23316231	DIODE, 1SS355
D370	23316231	DIODE, 1SS355
D401	23118094	DIODE, EU2A
D402	23357366	DIODE, FR105-B5
D403	23357439	DIODE, VRM=1500V IF(AV)=2.5A RH4F LF-L1
D405	23357439	DIODE, VRM=1500V IF(AV)=2.5A RH4F LF-L1
D406	23357366	DIODE, FR105-B5
D412	23118707	DIODE, RP-1H
D413	23118707	DIODE, RP-1H
D420	23115599	DIODE, 1N4148
D421	23357365	DIODE, 1N4004A-B5
D425	23357366	DIODE, FR105-B5
D426	23118275	DIODE, ZENER, RD18MB2
D461	23316969	DIODE, ERD29-06
D490	23115599	DIODE, 1N4148
D490	23316675	DIODE, ZENER, MTZJ6.2B
D491	23316231	DIODE, 1SS355
D491	23316758	DIODE, ZENER, MTZJ36B

Location No.	Parts No.	Description
D492	23118621	DIODE, ZENER, RD10ESA B3
D503	23316231	DIODE, 1SS355
D505	23115599	DIODE, 1N4148
D505	23316231	DIODE, 1SS355
D506	23316673	DIODE, ZENER, MTZJ5.6C
D511	23357037	DIODE, ZENER, UDZS5.6B
D514	23357037	DIODE, ZENER, UDZS5.6B
D515	23357037	DIODE, ZENER, UDZS5.6B
D601	23316231	DIODE, 1SS355
D602	23316231	DIODE, 1SS355
D603	23316231	DIODE, 1SS355
D604	23316231	DIODE, 1SS355
D605	23316231	DIODE, 1SS355
D606	23316231	DIODE, 1SS355
D607	23316231	DIODE, 1SS355
D608	23316231	DIODE, 1SS355
D609	23316231	DIODE, 1SS355
D610	23316231	DIODE, 1SS355
D611	23316231	DIODE, 1SS355
D628	23118269	DIODE, ZENER, RD22MB2
D701	23115599	DIODE, 1N4148
D702	23115599	DIODE, 1N4148
D703	23115599	DIODE, 1N4148
D704	23115599	DIODE, 1N4148
D705	23316675	DIODE, ZENER, MTZJ6.2B
D706	23316675	DIODE, ZENER, MTZJ6.2B
D707	23316675	DIODE, ZENER, MTZJ6.2B
D801	23316962	DIODE, S1WBA20
D802	23357041	DIODE, LN6SB60-F05
D816	24000656	VARISTOR, TNR15G471K
D817	23115599	DIODE, 1N4148
D818	23316672	DIODE, ZENER, MTZJ5.6B
D819	23316454	SCR, SF0R3G42NG5H
D820	23316757	DIODE, ZENER, MTZJ36A
D821	23115599	DIODE, 1N4148
D830	23115532	DIODE, ERB12-01
D830	23115599	DIODE, 1N4148
D832	23115532	DIODE, ERB12-01
D845	23357215	DIODE, D4SBS6
D846	23118060	DIODE, AL01Z
D854	23357214	DIODE, D4SBS4
D856	23357216	DIODE, D4SBL20U
D858	23115599	DIODE, 1N4148
D860	23357217	DIODE, D4SBL40
D862	23118057	DIODE, AG01A
D863	23316689	DIODE, ZENER, MTZJ10A
D864	23118060	DIODE, AL01Z
D873	23316747	DIODE, ZENER, MTZJ27C
D875	23316688	DIODE, ZENER, MTZJ9.1C
D876	23316753	DIODE, ZENER, MTZJ33A
D877	23316747	DIODE, ZENER, MTZJ27C
D878	23316686	DIODE, ZENER, MTZJ9.1A
D881	23357365	DIODE, 1N4004A-B5
D882	23115532	DIODE, ERB12-01
D883	23115532	DIODE, ERB12-01
D884	23115532	DIODE, ERB12-01
D885	23115532	DIODE, ERB12-01
D893	23316669	DIODE, ZENER, MTZJ5.1B
D894	23316745	DIODE, ZENER, MTZJ27A
D901	23115599	DIODE, 1N4148
D902	23115599	DIODE, 1N4148
D911	23115599	DIODE, 1N4148
D912	23115599	DIODE, 1N4148
D914	23115599	DIODE, 1N4148
D921	23115599	DIODE, 1N4148

Location No.	Parts No.	Description
D922	23115599	DIODE, 1N4148
D924	23115599	DIODE, 1N4148
D925	23115599	DIODE, 1N4148
D965	23115599	DIODE, 1N4148
D966	23115599	DIODE, 1N4148
D4401	23316231	DIODE, 1SS355
D4402	23316231	DIODE, 1SS355
D4451	23357365	DIODE, 1N4004A-B5
D4452	23357170	DIODE, ZENER, UDZS8.2B
D4453	23316231	DIODE, 1SS355
D4471	23357172	DIODE, ZENER, UDZS10B
D4472	23316231	DIODE, 1SS355
D7703	23118538	DIODE, ZENER, RD6.2ESA B2
D7705	23316231	DIODE, 1SS355
D7706	23316231	DIODE, 1SS355
D7707	23316231	DIODE, 1SS355
D7708	23316231	DIODE, 1SS355
D7710	23316716	DIODE, ZENER, MTZJ11B
D7713	23316231	DIODE, 1SS355
D7736	23316231	DIODE, 1SS355
D7743	23357365	DIODE, 1N4004A-B5
D7744	23357365	DIODE, 1N4004A-B5
D845B	70391355	SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN
DA42	23316673	DIODE, ZENER, MTZJ5.6C
DB01	23358564	DIODE, LED, SLR-56VC3FPQ
DB02	23358563	DIODE, LED, SLR-56MC3FPQR
DR01	23316231	DIODE, 1SS355
DR02	23316231	DIODE, 1SS355
DR03	23316231	DIODE, 1SS355
DR61	23316231	DIODE, 1SS355
DR62	23316231	DIODE, 1SS355
DR63	23316231	DIODE, 1SS355
DR70	23357037	DIODE, ZENER, UDZS5.6B
DV08	23316231	DIODE, 1SS355
DW04	23115599	DIODE, 1N4148
DW05	23115599	DIODE, 1N4148
DW21	23115599	DIODE, 1N4148
MISCELLANEOUS		
B224	23035412	SCREW
B230	23037312	SCREW
B231	23845856	WIRE CLAMP, POF COAT) L=70MM
B232	23035412	SCREW
B233	23035412	SCREW
B234	23037312	SCREW
B235	23037312	SCREW
B236	23037312	SCREW
B237	23037312	SCREW
B240	23035412	SCREW
B241	23035412	SCREW
BB20A	23902749	CONNECTOR, SOCKET, B-B 6P
BB21A	23713013	CONNECTOR, SOCKET, B-B 16P 1.5
BB21B	23713014	CONNECTOR, BRIDGE PLUG 16P 1.5
BB23	23902749	CONNECTOR, SOCKET, B-B 6P
BB23B	23368517	CONNECTOR, PLUG, B-B 6P
BB24A	23713013	CONNECTOR, SOCKET, B-B 16P 1.5
BB24B	23713014	CONNECTOR, BRIDGE PLUG 16P 1.5
BB701	23368517	CONNECTOR, PLUG, B-B 6P
BB80A	23713013	CONNECTOR, SOCKET, B-B 16P 1.5
BB80B	23713014	CONNECTOR, BRIDGE PLUG 16P 1.5
BB82A	23713013	CONNECTOR, SOCKET, B-B 16P 1.5
BB82B	23713014	CONNECTOR, BRIDGE PLUG 16P 1.5
BB85A	23903022	CONNECTOR, BASE B-B 8P 2.5 JST
BB85B	23903022	CONNECTOR, BASE B-B 8P 2.5 JST

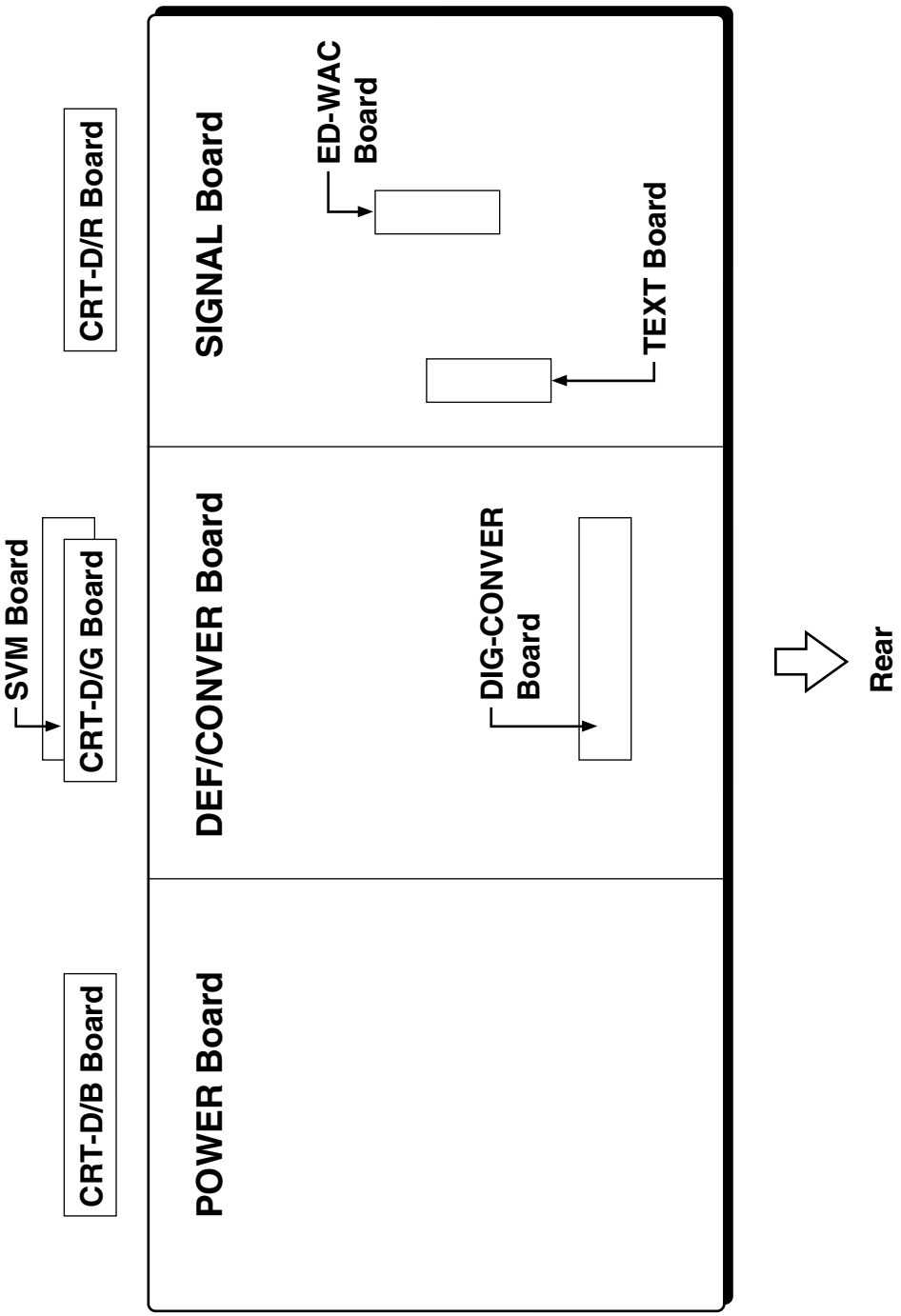
Location No.	Parts No.	Description
BB85C	23368627	CONNECTOR, BRIDGE B-B 8P 2.5JST 08TM-2.5FJ-E
E921	23964147	COOLANT, COOLANT
E929	23969684	TAPE, GLASS-CLOTH, W/ADHESIVE W=90 T=0.18
E951	23964147	COOLANT, COOLANT
E959	23969684	TAPE, GLASS-CLOTH, W/ADHESIVE W=90 T=0.18
E981	23964147	COOLANT, COOLANT
E989	23969684	TAPE, GLASS-CLOTH, W/ADHESIVE W=90 T=0.18
⚠ F801	23144507	FUSE, CARTRIDGE 5.2X20 250V 3.15A
F801A	23165433	FUSE HOLDER, 5.2 SOC
F801B	23165433	FUSE HOLDER, 5.2 SOC
G005	23115599	DIODE, 1N4148
G023	24327180	RESISTER, METAL FILM, 1/4W 180 OHM F
G103	23103828	INDUCTOR, BEAD, TEM2121M
G510	23289479	COIL, PEAKING, TRF44R7AF
G601	24000445	CHIP JUMPER, 1608TYPE
G602	24000445	CHIP JUMPER, 1608TYPE
G603	24000445	CHIP JUMPER, 1608TYPE
G604	24000445	CHIP JUMPER, 1608TYPE
GA37	23103828	INDUCTOR, BEAD, TEM2121M
GA38	23103828	INDUCTOR, BEAD, TEM2121M
GA39	23103828	INDUCTOR, BEAD, TEM2121M
GA40	23103828	INDUCTOR, BEAD, TEM2121M
GA41	23103828	INDUCTOR, BEAD, TEM2121M
GC01	24000445	CHIP JUMPER, 1608TYPE
GC02	23103828	INDUCTOR, BEAD, TEM2121M
GC03	24000445	CHIP JUMPER, 1608TYPE
GC04	23103828	INDUCTOR, BEAD, TEM2121M
GC15	23103828	INDUCTOR, BEAD, TEM2121M
GC16	23103828	INDUCTOR, BEAD, TEM2121M
GC17	23103828	INDUCTOR, BEAD, TEM2121M
GJ03	24000445	CHIP JUMPER, 1608TYPE
GJ05	24000445	CHIP JUMPER, 1608TYPE
GJ08	24000445	CHIP JUMPER, 1608TYPE
GJ11	24000445	CHIP JUMPER, 1608TYPE
GJ13	24000445	CHIP JUMPER, 1608TYPE
GJ14	24000445	CHIP JUMPER, 1608TYPE
GJ16	24000445	CHIP JUMPER, 1608TYPE
GJ17	24000445	CHIP JUMPER, 1608TYPE
GJ18	24000445	CHIP JUMPER, 1608TYPE
GJ21	24000445	CHIP JUMPER, 1608TYPE
GJ22	24000445	CHIP JUMPER, 1608TYPE
GJ23	24000445	CHIP JUMPER, 1608TYPE
GJ24	24000445	CHIP JUMPER, 1608TYPE
GJ30	24000445	CHIP JUMPER, 1608TYPE
GJ47	24000445	CHIP JUMPER, 1608TYPE
GJ48	24000445	CHIP JUMPER, 1608TYPE
GJ48	24000824	CHIP JUMPER, 2125TYPE
GJ49	24000445	CHIP JUMPER, 1608TYPE
GJ51	24000445	CHIP JUMPER, 1608TYPE
GJ62	24000445	CHIP JUMPER, 1608TYPE
GJ63	24000445	CHIP JUMPER, 1608TYPE
GJ68	24000445	CHIP JUMPER, 1608TYPE
GJ73	24000445	CHIP JUMPER, 1608TYPE
GJ74	24000445	CHIP JUMPER, 1608TYPE
GJ75	24000445	CHIP JUMPER, 1608TYPE
GJ76	24000445	CHIP JUMPER, 1608TYPE
GJ76	24000445	CHIP JUMPER, 1608TYPE
GJ77	24000445	CHIP JUMPER, 1608TYPE
GJ78	24000445	CHIP JUMPER, 1608TYPE
GJ79	24000445	CHIP JUMPER, 1608TYPE
GJ705	24000824	CHIP JUMPER, 2125TYPE

Location No.	Parts No.	Description
GJ707	24000824	CHIP JUMPER, 2125TYPE
GJ708	24000824	CHIP JUMPER, 2125TYPE
GJ711	24872101	CHIP, METAL FILM, 1/16W 100 OH
GJ712	24872101	CHIP, METAL FILM, 1/16W 100 OH
GJ713	24000824	CHIP JUMPER, 2125TYPE
GJ714	24000824	CHIP JUMPER, 2125TYPE
GJ718	24000824	CHIP JUMPER, 2125TYPE
GJ777	24000445	CHIP JUMPER, 1608TYPE
GT03	24011472	CHIP, METAL FILM, 1/20W 4.7K O
GT04	24011472	CHIP, METAL FILM, 1/20W 4.7K O
GT05	24011472	CHIP, METAL FILM, 1/20W 4.7K O
GT07	24000445	CHIP JUMPER, 1608TYPE
GT09	24011103	CHIP, METAL FILM, 1/20W 10K OH
H002	23148745	MODULE, NICAM/IGR A-PRO MPSN11C
JR01	24000445	CHIP JUMPER, 1608TYPE
KB01	23000852	IC, REMOTE PHOTO RECEIVER, PIC-37043TE2
P605A	23368580	CONNECTOR, PLUG 6P, 2.5MM G JST-EH B6B-EH-F1-TV4
P661	23365444	EARPONE JACK, D3.5 HOSIDEN
P701	23367724	CONNECTOR, PLUG B-B 15P
P702	23367724	CONNECTOR, PLUG B-B 15P
P708	23902655	CONNECTOR, B-B 15P
P709	23902655	CONNECTOR, B-B 15P
P713	23164787	CONNECTOR, PLUG, 7P
P714	23164787	CONNECTOR, PLUG, 7P
P715	23164787	CONNECTOR, PLUG, 7P
P800	23368013	CONNECTOR, PLUG, 2P 11.88MM W VT-JST
⚠ P801	23372012	POWER CORD, POWER CORD
⚠ P801	23372052	POWER CORD, 250V2.5A
PB12A	23368580	CONNECTOR, PLUG 6P, 2.5MM G JST-EH B6B-EH-F1-TV4
PB12B	23368584	CONNECTOR, PLUG, 3P2.5MM W EH-JST S3B-EH
PF01	23902655	CONNECTOR, B-B 15P
PT01	23367724	CONNECTOR, PLUG B-B 15P
PW01	23368130	CONNECTOR, PLUG B-B 10P
PW02	23368130	CONNECTOR, PLUG B-B 10P
PW06	23902213	CONNECTOR, SOCKET B-B 10P
PW07	23902213	CONNECTOR, SOCKET B-B 10P
⚠ S801	23344482	SWITCH, ESB92S NAE ESB92S28B
SA01	23145430	SWITCH, PUSH, SKHHLMA010
SA02	23145430	SWITCH, PUSH, SKHHLMA010
SA03	23145430	SWITCH, PUSH, SKHHLMA010
SA04	23145430	SWITCH, PUSH, SKHHLMA010
SA06	23145430	SWITCH, PUSH, SKHHLMA010
⚠ SR81	23146574	RELAY, DLS5D1-O(M) 0.15W
W661	23151232	SPEAKER, SPK-1235, 160X160, 65HZ, 8 OHM
W661	23351208	SPEAKER, 160X160 8-OHM 15W SPK-1235AW
W662	23151232	SPEAKER, SPK-1235, 160X160, 65HZ, 8 OHM
W662	23351208	SPEAKER, 160X160 8-OHM 15W SPK-1235AW
X501	23153438	CRYSTAL, 16.200 25PPM 25OHM
X4402	23153721	CERAMIC RESONATOR, 503KHZ
XA01	23153497	CERAMIC RESONATER, TCR1080AM
XT01	23153930	CRYSTAL
⚠ Z410	23110842	FOCUS PACK, TPA6031
⚠ Z450	24083013	COMPOSITE PARTS, CR-BLOCK, TPA5010AH
Z702	23103823	COIL, FILTER, TEM2027D
Z703	23103823	COIL, FILTER, TEM2027D
Z704	23103823	COIL, FILTER, TEM2027D
Z705	23103823	COIL, FILTER, TEM2027D
Z706	23103823	COIL, FILTER, TEM2027D
Z707	23103823	COIL, FILTER, TEM2027D
Z711	23103823	COIL, FILTER, TEM2027D
Z712	23103823	COIL, FILTER, TEM2027D

Location No.	Parts No.	Description
⚠ Z853	23144608	PROTECTOR, PRT SERIES, DC60V/AC90V 4000MA
Z856	23144605	PROTECTOR, PRT SERIES, DC60V/AC90V 2000MA
Z857	23144609	PROTECTOR, PRT SERIES, DC60V/AC90V 5000MA
Z858	23144609	PROTECTOR, PRT SERIES, DC60V/AC90V 5000MA
Z859	23144609	PROTECTOR, PRT SERIES, DC60V/AC90V 5000MA
⚠ Z860	23144480	PROTECT0R, CURRENT, AC125V 3.15A
Z861	23144605	PROTECTOR, PRT SERIES, DC60V/AC90V 2000MA
PC BOARD ASSEMBLIES		
∗ U101	23761269	PC BOARD ASSY, SIGNAL PD0380E
∗ U102	23761270	PC BOARD ASSY, DEF/CONV PD0381D
∗ U103	23787351	PC BOARD ASSY, D-CONVER PD0382B
∗ U104	23787247	PC BOARD ASSY, TEXT-P2 PD0267A
∗ U105	23784625	PC BOARD ASSY, ED-WAC PB8892B PWU PB8892B
∗ U901A	23761397	PC BOARD ASSY, CRTD RED PD0383C1
∗ U901B	23761398	PC BOARD ASSY, CRTD GREEN PD0383C2
∗ U901C	23761399	PC BOARD ASSY, CRTD BLUE PD0383C3
∗ U901D	23761400	PC BOARD ASSY, SVM PD0383C4
∗ U902	23761278	PC BOARD ASSY, MAIN-POWER PD0384B
∗ U906A	23761275	PC BOARD ASSY, FRONT IN PD1103C1
∗ U906B	23761276	PC BOARD ASSY, RMT IN PD1103C2
∗ U906C	23761277	PC BOARD ASSY, IND PD1103C3
PICTURE TUBE		
⚠ V901A	23903148	SOCKET, ISH-44S-E ICE #5 ISH-44S-E #5
⚠ V902A	23903148	SOCKET, ISH-44S-E ICE #5 ISH-44S-E #5
⚠ V903A	23903148	SOCKET, ISH-44S-E ICE #5 ISH-44S-E #5
⚠ V911R	23587094	SERVICE KIT, PJTV CRT-R CRT R 42PW33P
⚠ V912B	23587095	SERVICE KIT, PJTV CRT-B CRT B 42PW33P
⚠ V913G	23587096	SERVICE KIT, PJTV CRT-G CRT G 42PW33P
TUNER		
H001	23321398	TUNER, TADF4-003A, EURO IF ALPS
ACCESSORIES		
K101	23405101	LENS, DELTA71-A/B DELTA71-A/B
K102	23405101	LENS, DELTA71-A/B DELTA71-A/B
K103	23405101	LENS, DELTA71-A/B DELTA71-A/B
K501	23311897	SCREEN, 42KL LENTICULAR SHEET SCREEN42KL-L
K502	23311921	SCREEN, 42KLU FRESNEL SHEET SCREEN42KLUF
K601	23405108	MIRROR, MIRROR 42W SECOND 42PW23P
K902	23306435	REMOCON HAND UNIT IR, CTVPAL CT-90101
Y101A	23566141	OWNER'S MANUAL, ENGLISH MANUAL ENG 42PW33P
Y101E	23566142	OWNER'S MANUAL, EURO MANUAL EUR 42PW33P
CABINET PARTS		
A110	23411869	CABINET, LIGHT BOX 42WH36P
A125	23560038	LABEL, ATTENTION SERVICE 48PJ6DB
A201	23532201	COVER, BEZEL ASSY 42PW33P 42PW33P
A225	23445716	BUTTON, POWER BUTTON 42WH36P 42WH36P
A258	23530851	COVER, SPEAKER GRILLE ASSEY 42WH36P
A266	23450659	PANEL, POLE SPK GRILLE(RIGHT) 42WH36P
A268	23450660	PANEL, POLE SPK GRILLE(LEFT) 42WH36P

Location No.	Parts No.	Description
A420	23540761	COVER, MIRROR COVER 42WT19B
⚠ A424	23411597	CABINET, BENTED BACK BOARD 42WT19B
A501	23035412	SCREW
A505	72471068	SCREW, 4X12
A508	23035412	SCREW
A529	23037312	SCREW
A529	23037312	SCREW
A543	72471068	SCREW, 4X12
A547	23035010	SCREW, PBI 4X16
A701	23064861	CARTON, CARTON 42PW23P 42PW23P
A702	23946233	PACKING, TOP PACKING 42WT19B
A703	23946234	PACKING, TOP PACKING 42WT19B
A726	23974753	POLYPROPYLENE BAND, 3327DB
A727	23974753	POLYPROPYLENE BAND, 3327DB

PC BOARDS LAYOUT TOP VIEW



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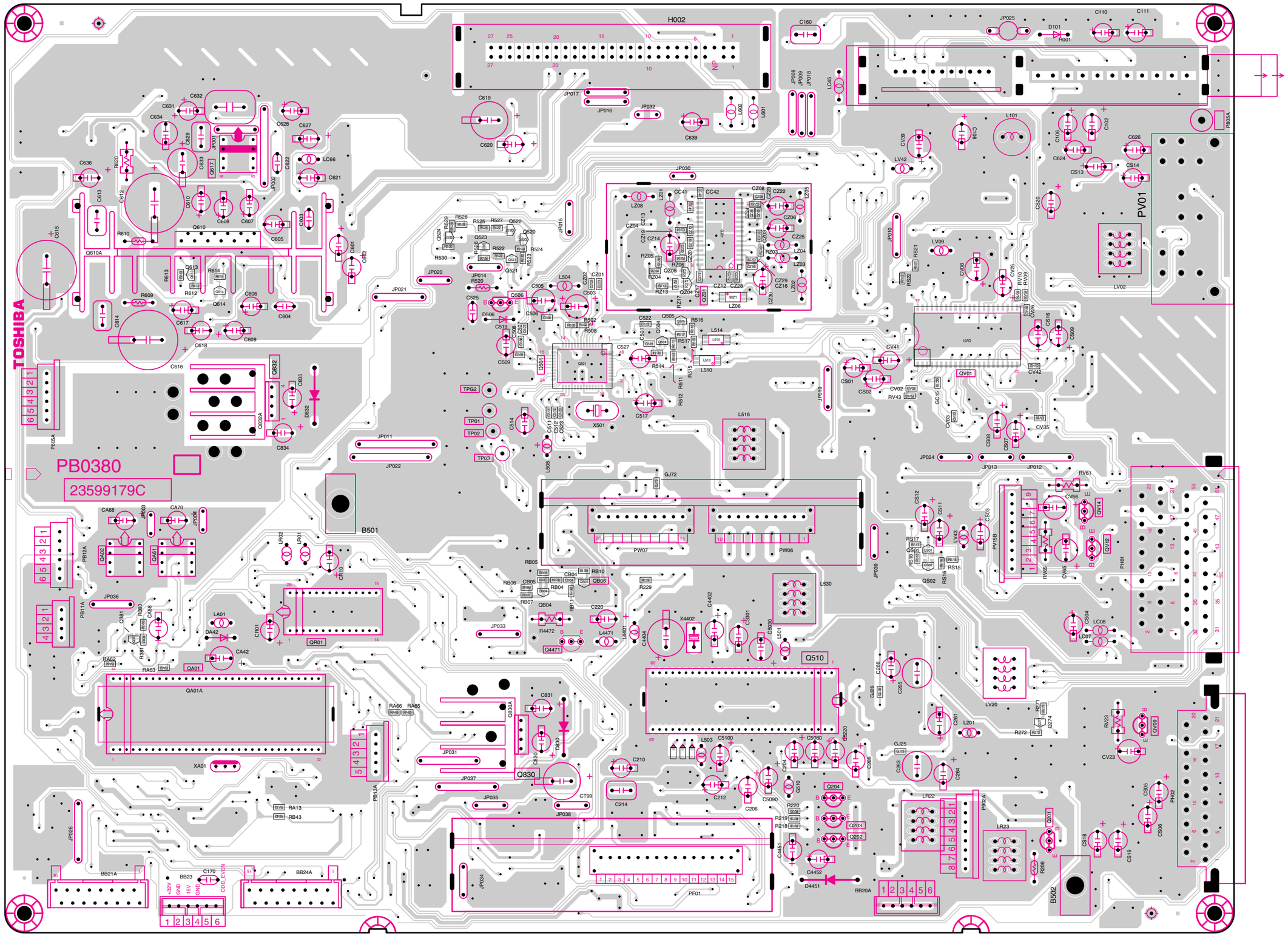
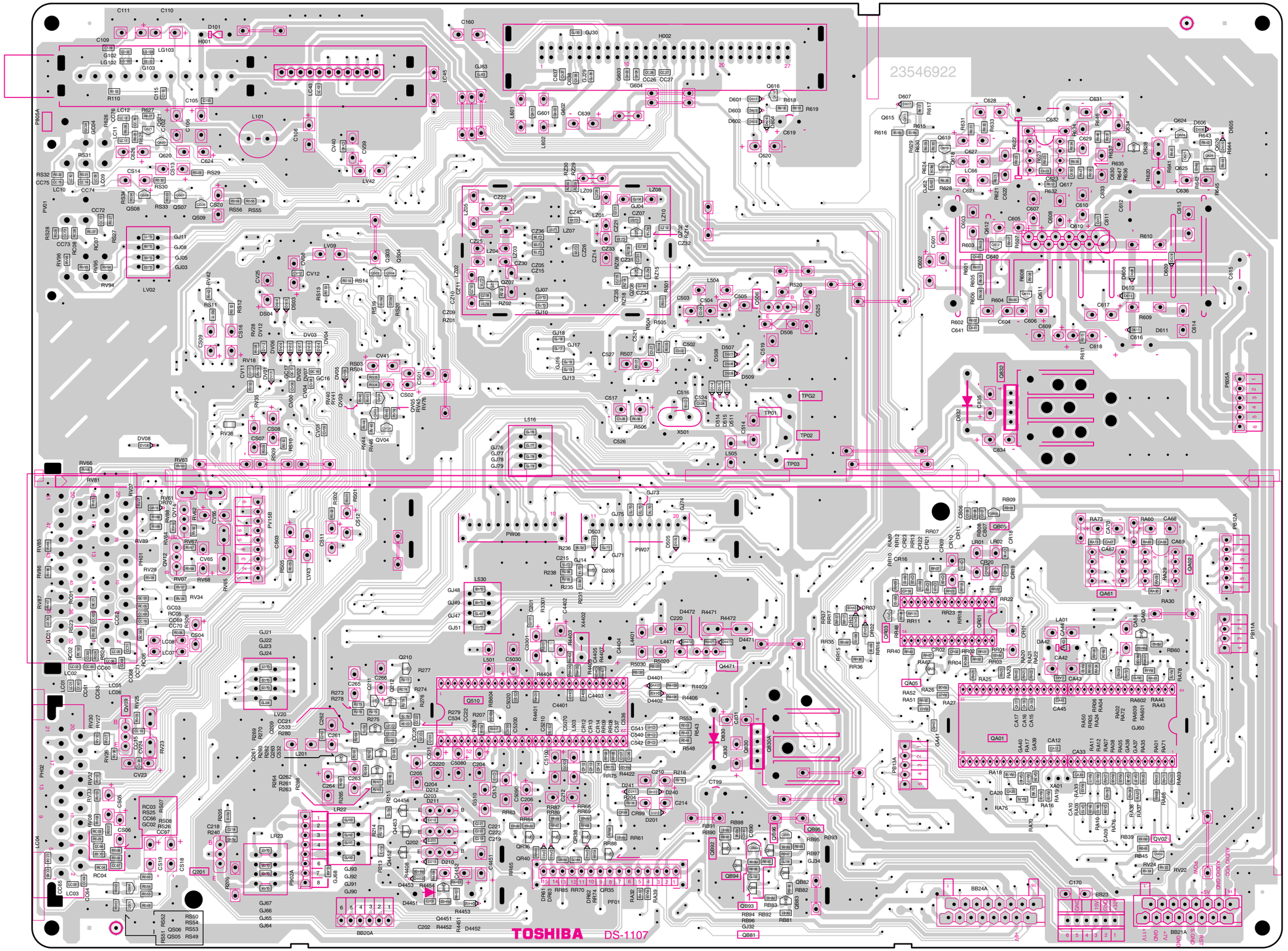
SIGNAL BOARD PD0380E

TOP (FOIL) SIDE



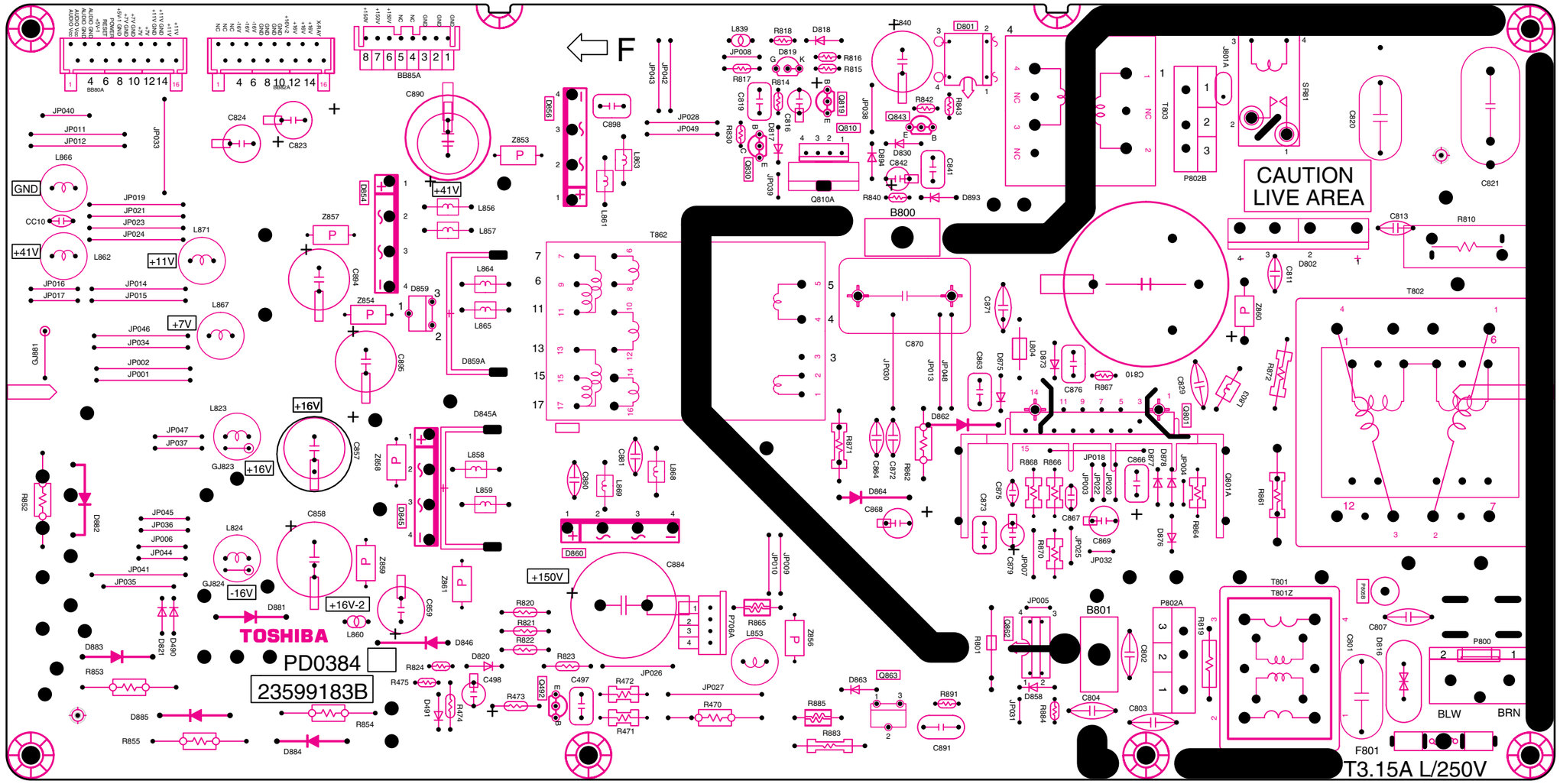
SIGNAL BOARD PD0380E

BOTTOM (FOIL) SIDE



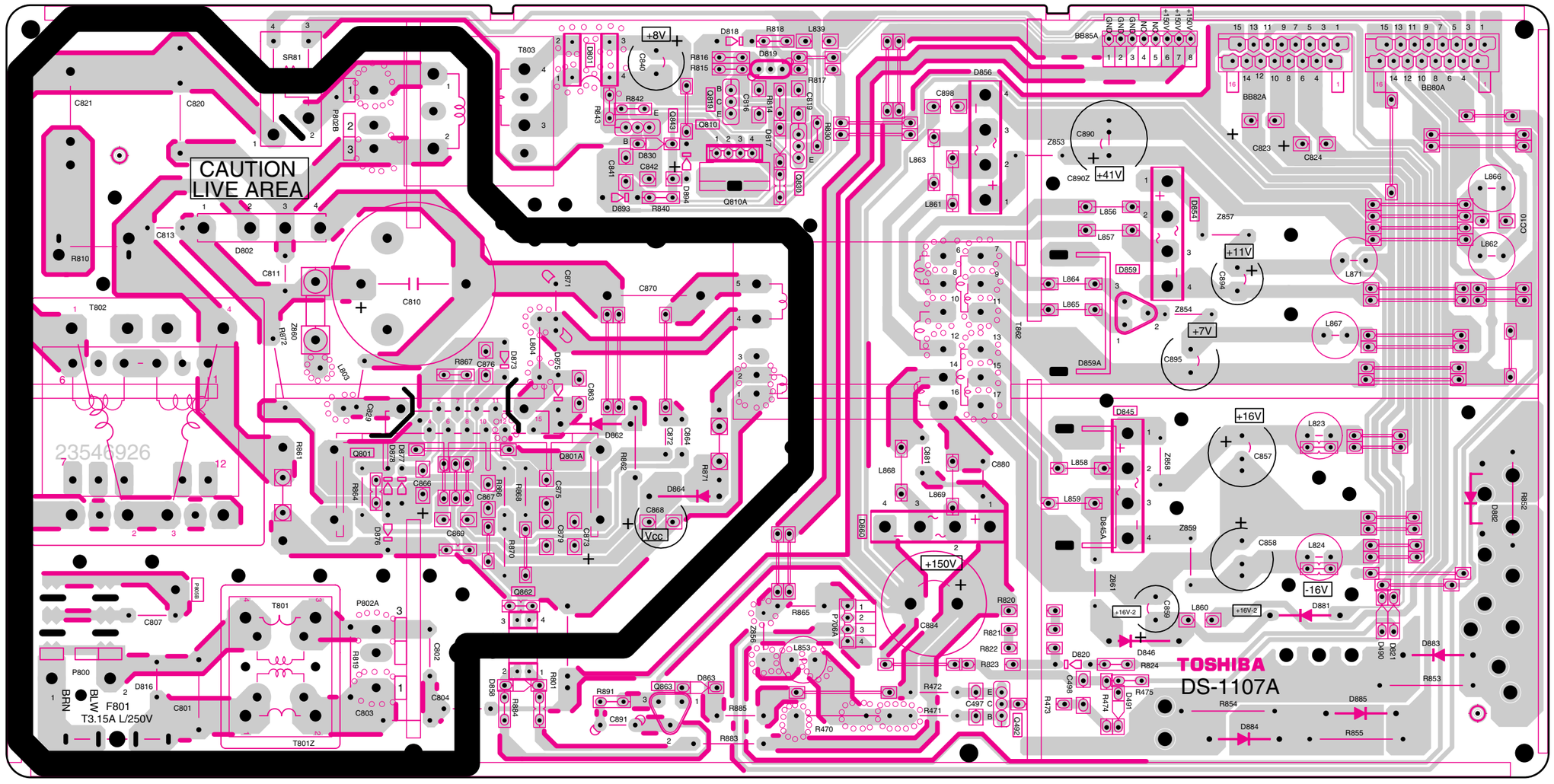
MAIN/POWER BOARD PD0384B

TOP (FOIL) SIDE



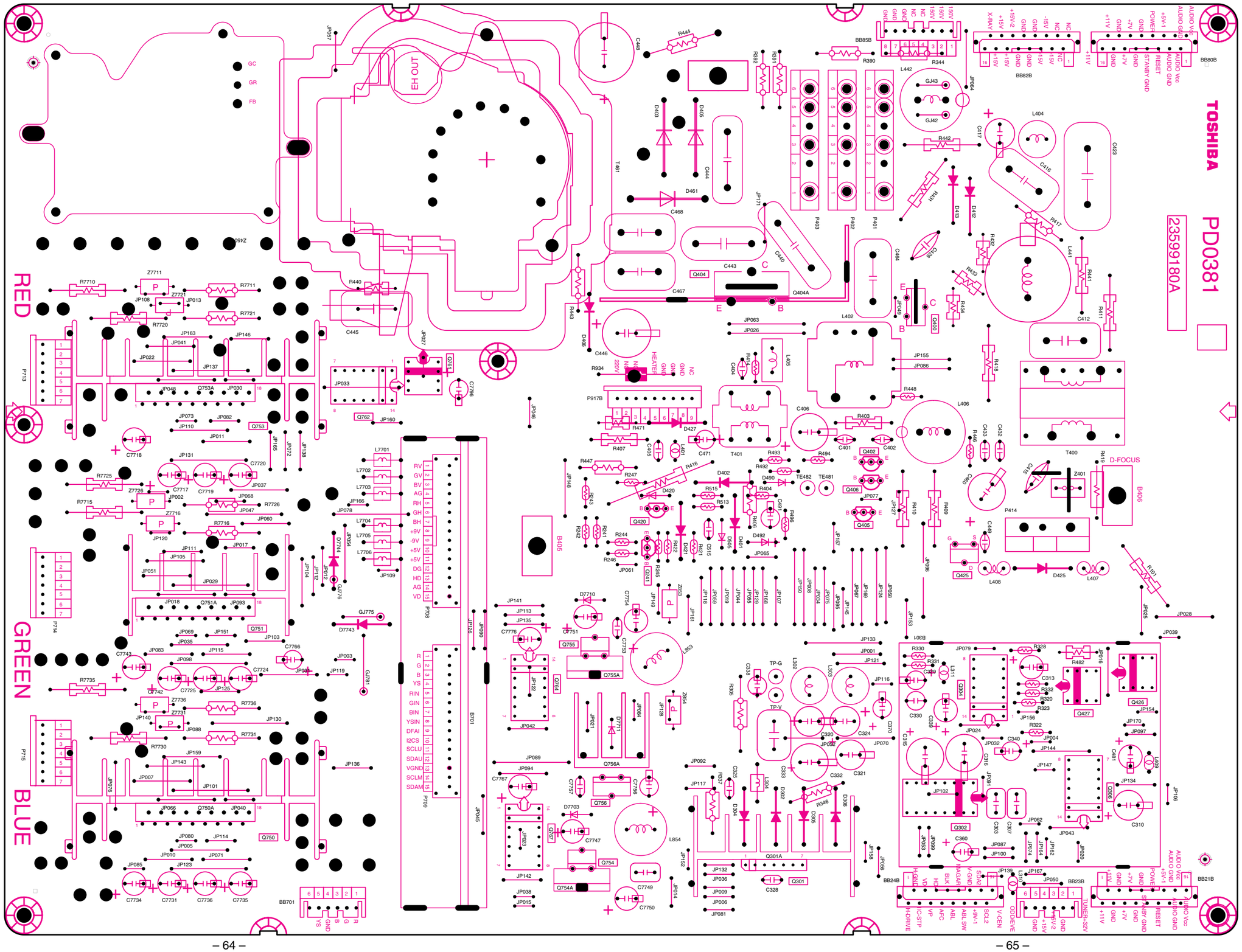
MAIN/POWER BOARD PD0384B

BOTTOM (FOIL) SIDE



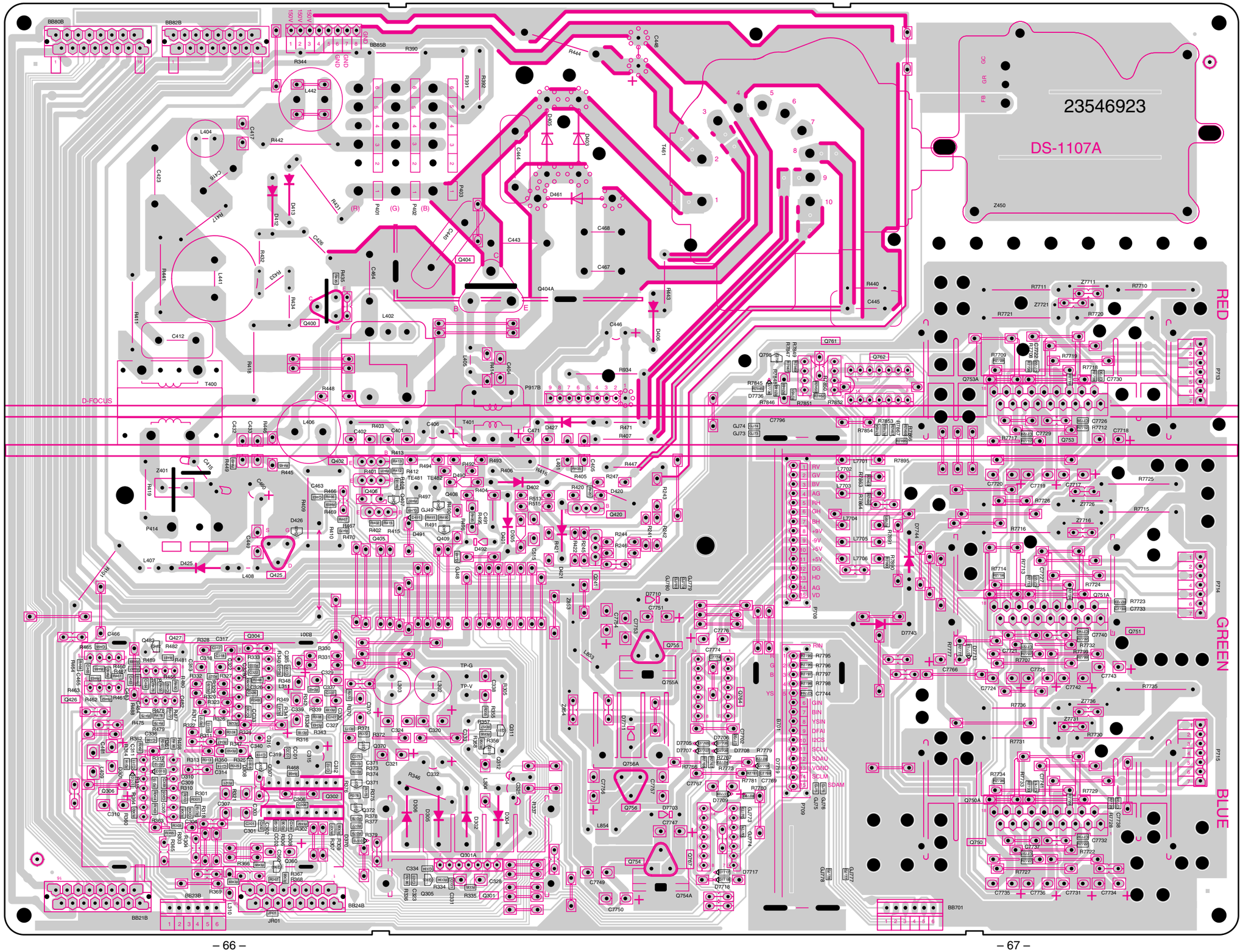
DEF/CONV BOARD PD0381D

TOP (FOIL) SIDE



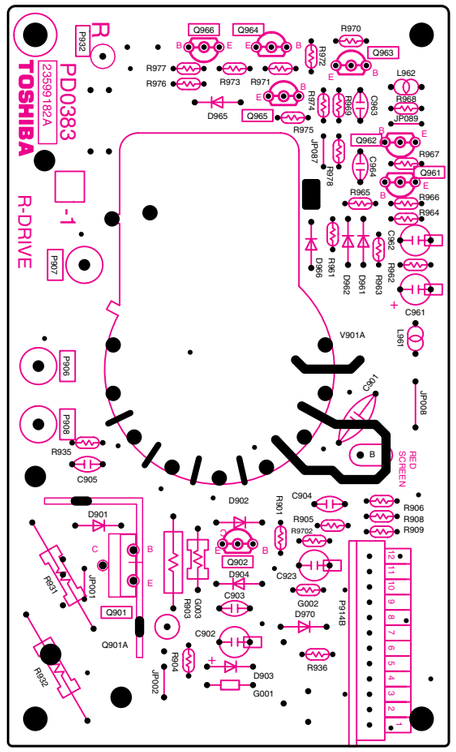
DEF/CONV BOARD PD0381D

BOTTOM (FOIL) SIDE



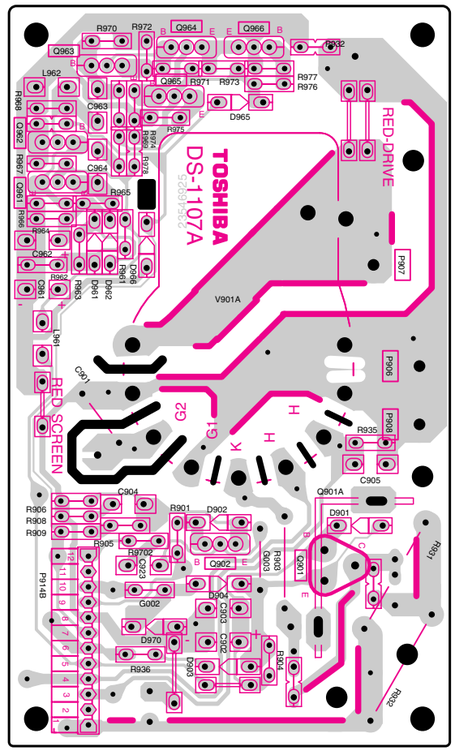
CRT-D RED BOARD PD0383C-1

TOP (FOIL) SIDE



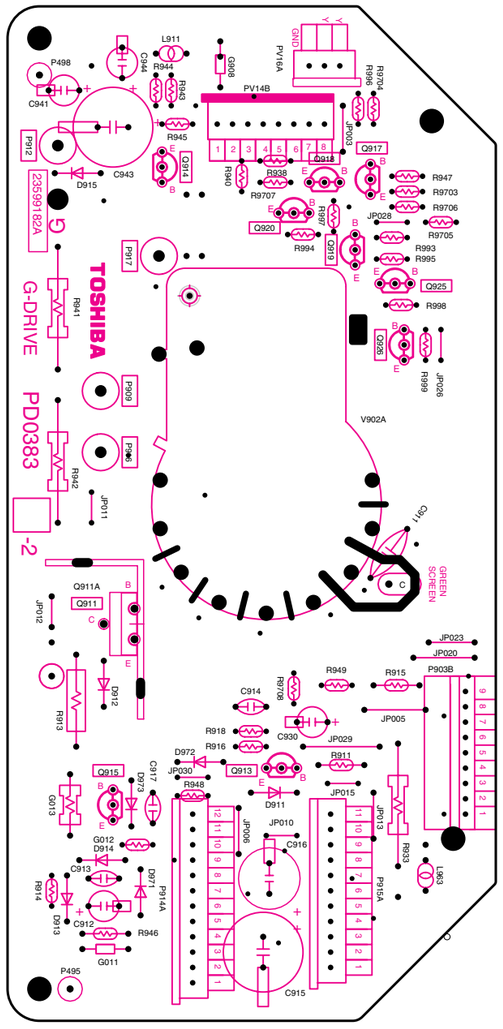
CRT-D RED BOARD PD0383C-1

BOTTOM (FOIL) SIDE



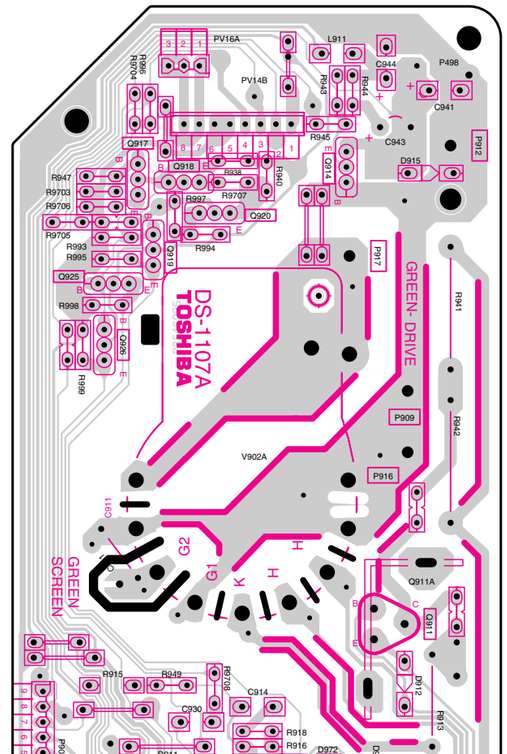
CRT-D GREEN BOARD PD0383C-2

TOP (FOIL) SIDE



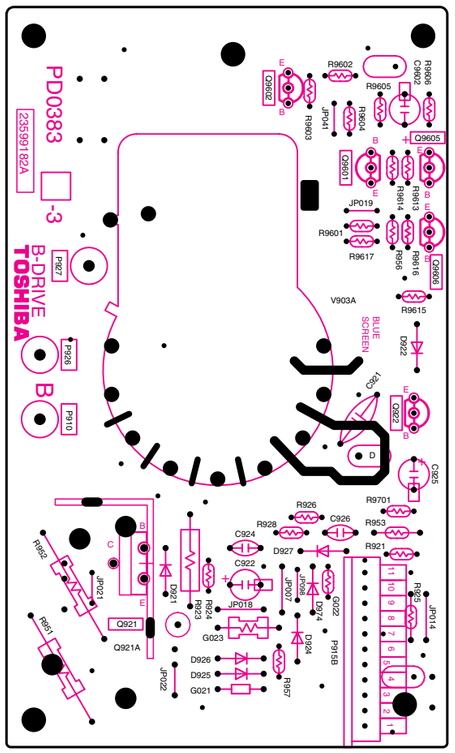
CRT-D GREEN BOARD PD0383C-2

BOTTOM (FOIL) SIDE



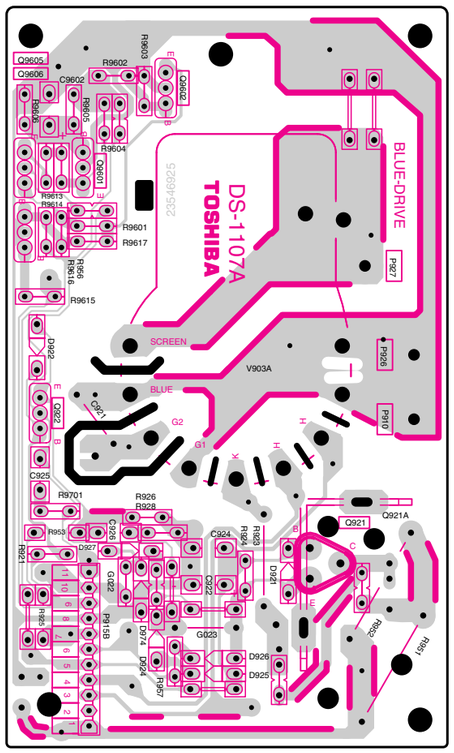
CRT-D BLUE BOARD PD0383C-3

TOP (FOIL) SIDE



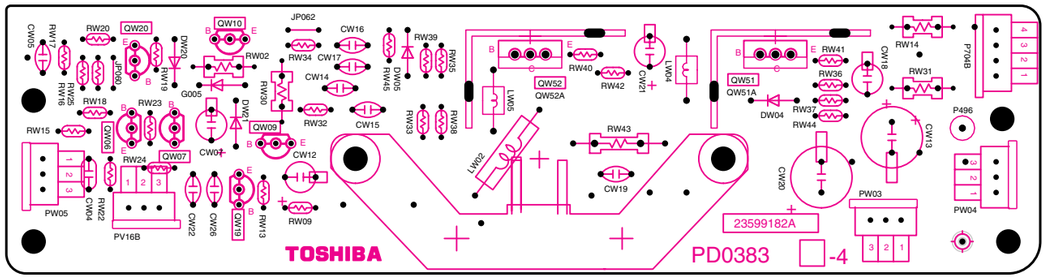
CRT-D BLUE BOARD PD0383C-3

BOTTOM (FOIL) SIDE



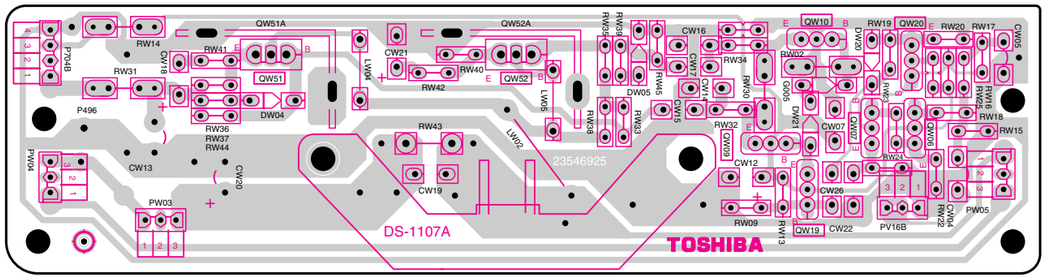
SVM BOARD PD0383C-4

TOP (FOIL) SIDE



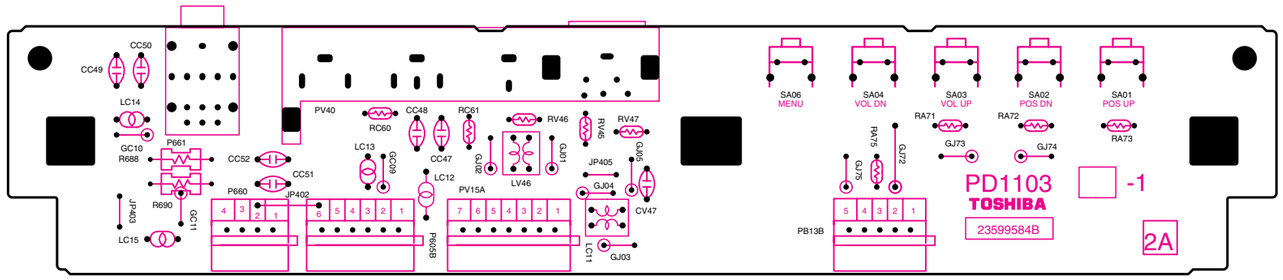
SVM BOARD PD0383C-4

BOTTOM (FOIL) SIDE



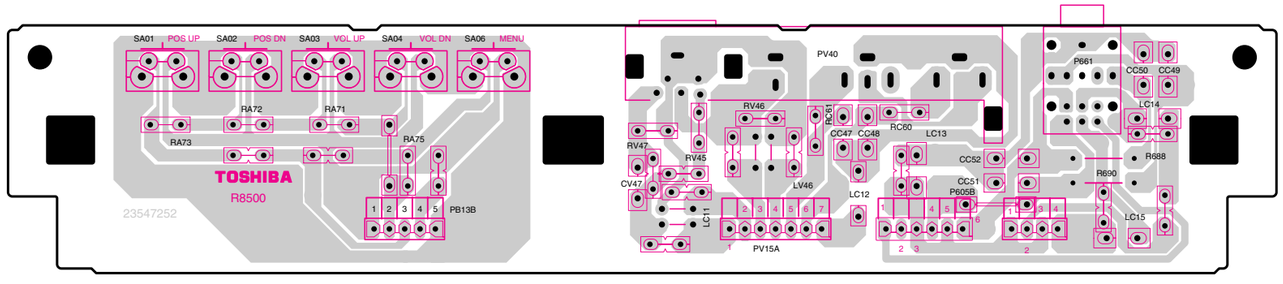
FRONT IN BOARD PD1103C-1

TOP (FOIL) SIDE



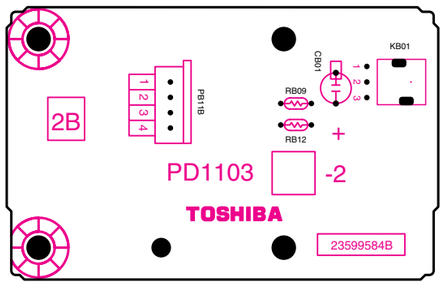
FRONT IN BOARD PD1103C-1

BOTTOM (FOIL) SIDE



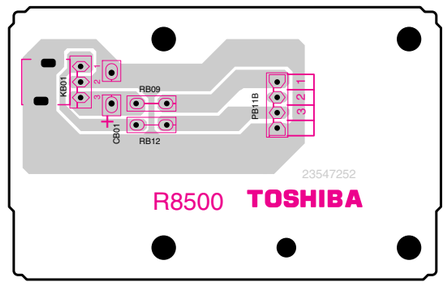
RMT-IN BOARD PD1103-2

TOP (FOIL) SIDE



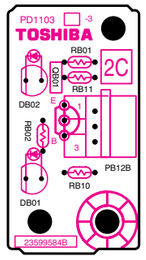
RMT-IN BOARD PD1103-2

BOTTOM (FOIL) SIDE



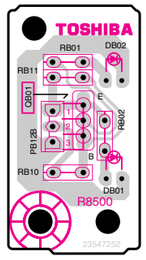
LED IND BOARD PD1103C-3

TOP (FOIL) SIDE



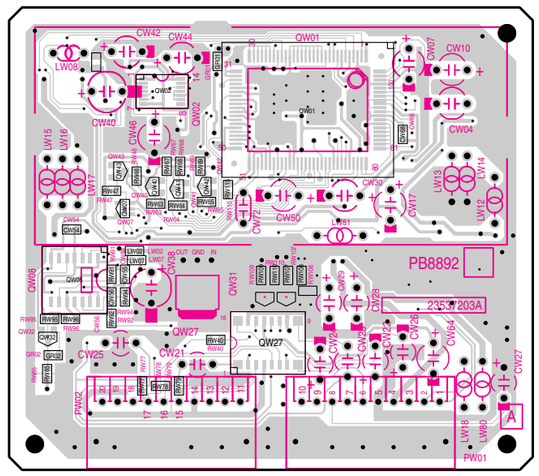
LED IND BOARD PD1103C-3

BOTTOM (FOIL) SIDE



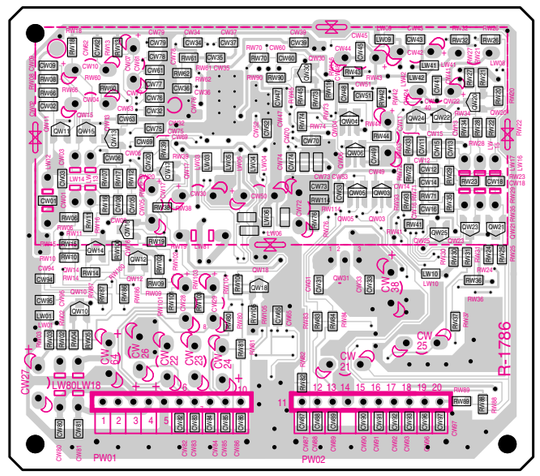
ED WACK BOARD PB8892B

TOP (FOIL) SIDE



ED WACK BOARD PB8892B

BOTTOM (FOIL) SIDE



TEXT-P2 BOARD PD0267A

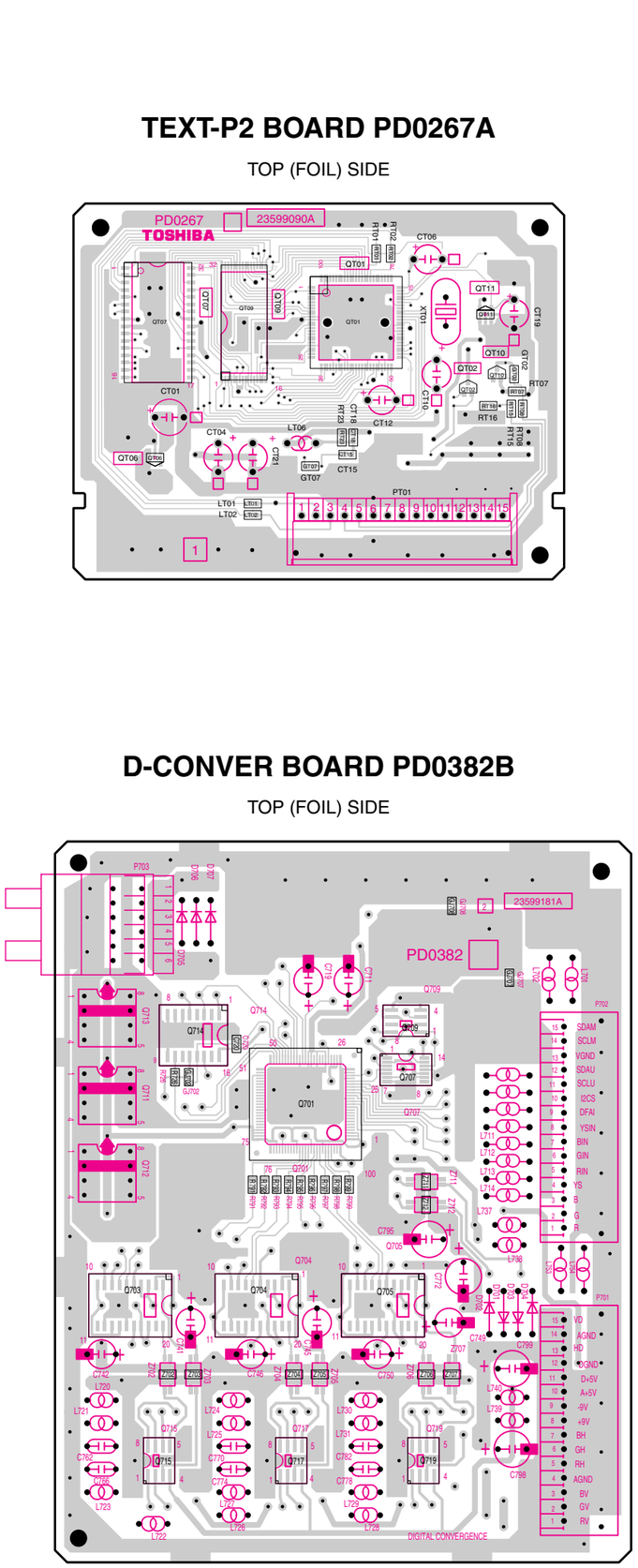
TOP (FOIL) SIDE

TEXT-P2 BOARD PD0267A

BOTTOM (FOIL) SIDE

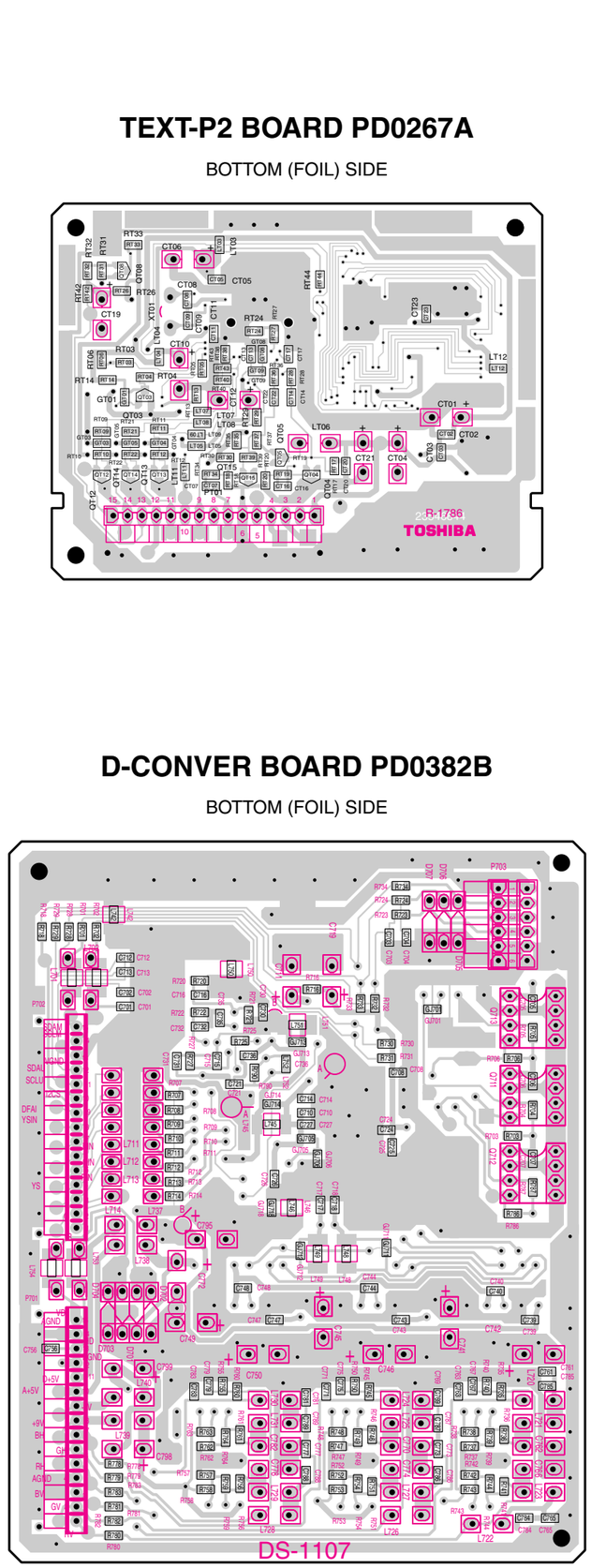
D-CONVER BOARD PD0382B

TOP (FOIL) SIDE



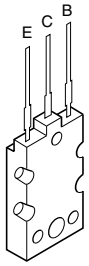
D-CONVER BOARD PD0382B

BOTTOM (FOIL) SIDE

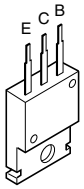


TERMINAL VIEW OF TRANSISTORS

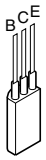
① 2SD2253
(old)
2SC5243



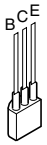
② 2SC3852
2SD1763A
2SC1569
2SC4544
2SA1788
2SA1306
2SA1186A



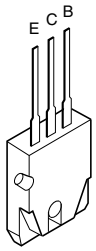
③ 2SC752GTM
2SC2482
2SC2655
2SC4721P



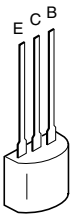
④ 2SC752
2SA562TM
2SA1015
2SC1815
2SC2878
2SC1740S
2SC2120
2SA9335



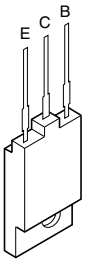
⑤ 2SA1788



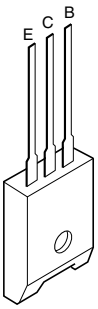
⑥ RN2203
RN2201
RN2004
RN1203
RN1204
RN2204
RN1205
RN1202
RN1201



⑦ 2SD1554
2SD2253
2SD1556
2SC5143
2SD2553



⑧ ON4409



SPECIFICATIONS

Rated voltage		AC 220 V – 240 V, 50/60 Hz
Dimensions (Width × Height × Depth)		1010 mm × 1160 mm × 420 mm (approx.)
Mass		52 kg (approx.)
Screen size		Type 42 (16:9)
Television system (Aerial input)	Channel coverage	**System** **Channel** **VHF** **UHF** **CATV** PAL B/G CCIR 2 – 12 21 – 69 X ~ Z+2, S1 ~ S41 PAL I UK — 21 – 69 — SECAM L CCIR * 21 – 69 * VHF : B-C ; 1-6, B-Q, 71-86 SECAM D/K OIRT 1 – 12 21 – 69 X1 ~ X19
	Special RF signal	**Colour system** **Sound system** 4.43NTSC 5.5/6.0/6.5 MHz PAL 60Hz 5.5/6.0/6.5 MHz
Colour system		PAL/SECAM/4.43NTSC/3.58NTSC
Sound output		14 W + 14 W
Accessories		• Remote control unit × 1 • Battery (R03, AAA) × 2

* Please refer to owner's manual in detail.

TOSHIBA CORPORATION
1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105-8001, JAPAN

SCHEMATIC DIAGRAM

MODEL : 42PW33P

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON THE MANUAL FOR THIS MODEL.

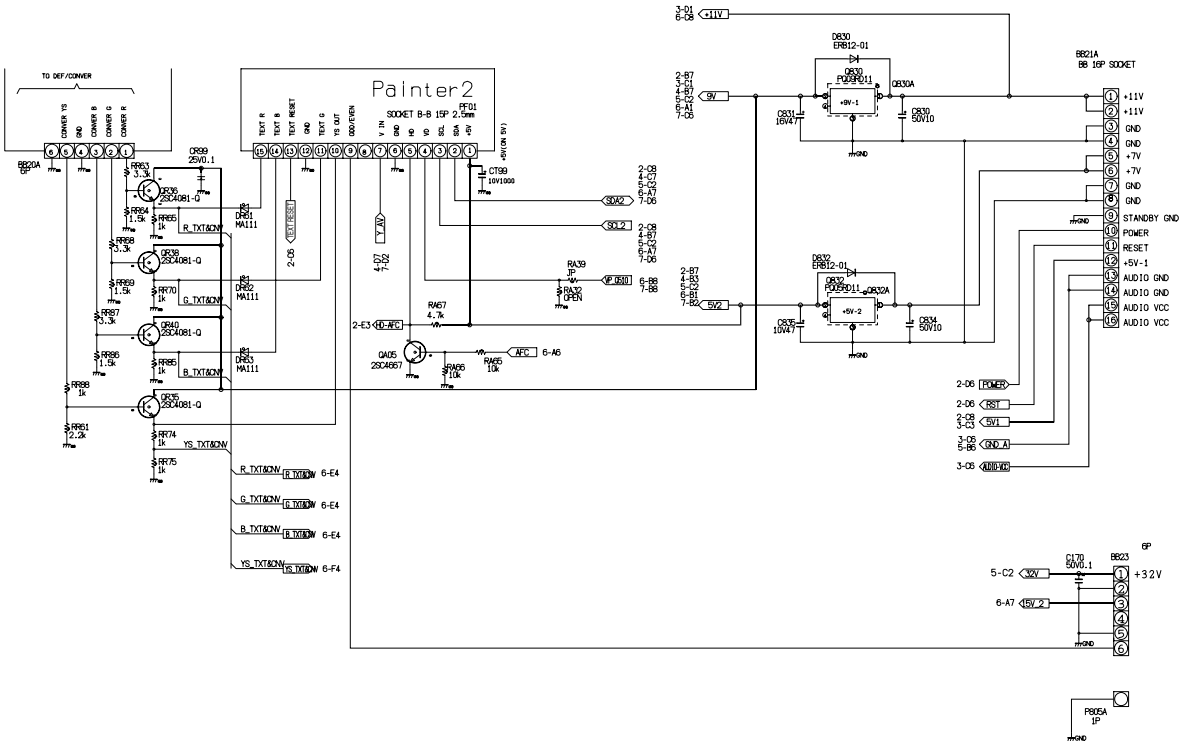
CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on the MANUAL for this model. Do not degrade the safety of the receiver through improper servicing.

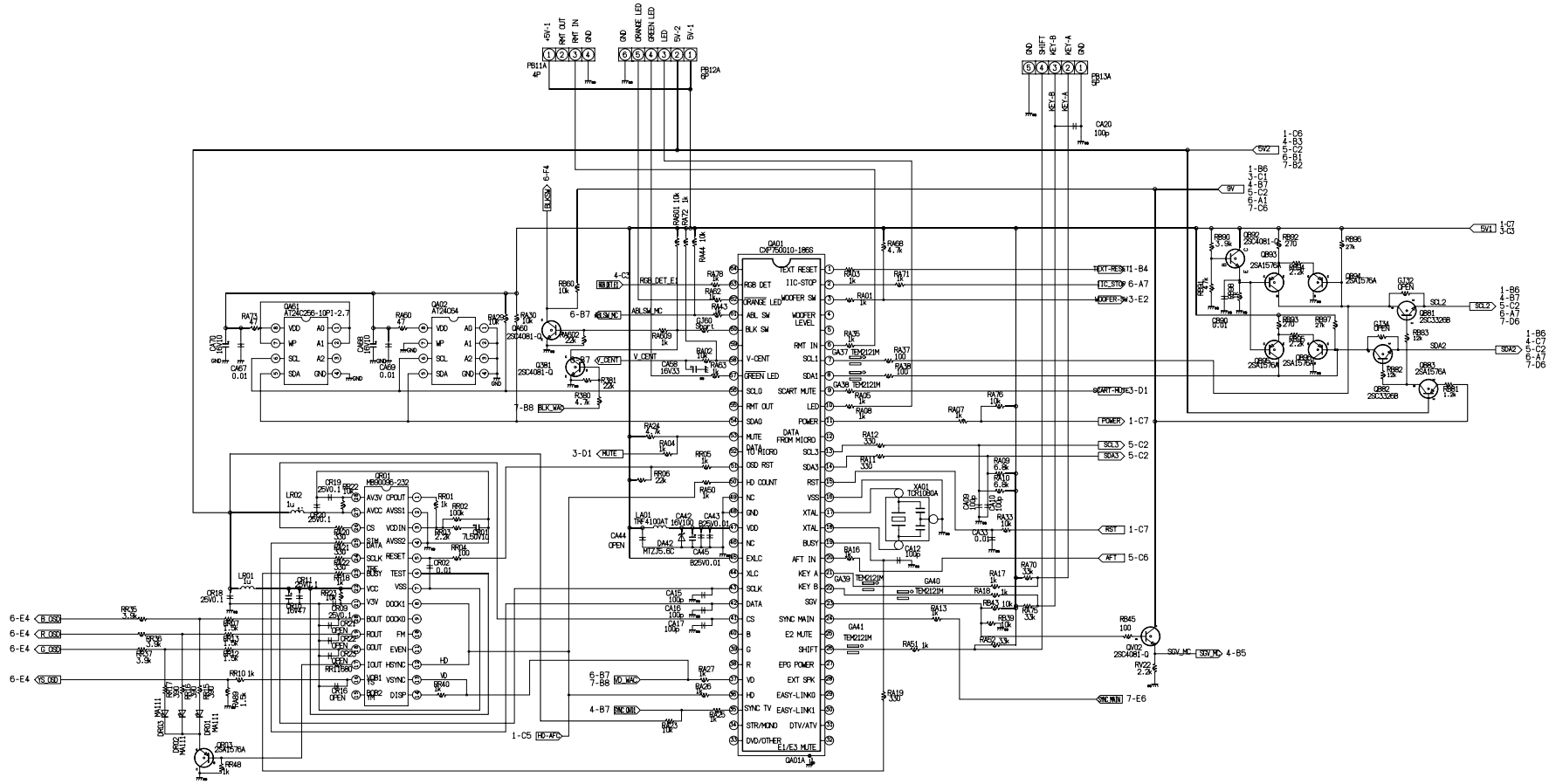
NOTE:

1. RESISTOR Resistance is shown in ohm [K = 1.000, M = 1.000.000]. All resistors are 1/6W and 5% tolerance carbon resistor, unless otherwise noted as the following marks.
   1/2R = Metal or Metal oxide of 1/2 watt 1/2S = Carbon compsistion of 1/2 watt
   1RF = Fuse resistor of 1 watt 10W = Cement of 10 watt
   K = 10% G = 2% F = 1%
2. CAPACITOR Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in F, and the values more than 1 in pF.
   All capacitors are ceramic 50V, unless otherwise noted as the following marks.
   Electolytic capacitor Mylar capacitor
3. The parts indicated with " ⚠ " have special characteristics, and should be replaced with identical parts only.
4. Voltages read with DIGITAL MULTI-METER from point indicated to chassing ground, using a color bar signal with all controls at normal, line voltage 220 volts.
5. Waveforms are taken receiving color bar signal with enough sensitivity.
6. Voltage reading shown are nominal values and may vary 20% except H.V.

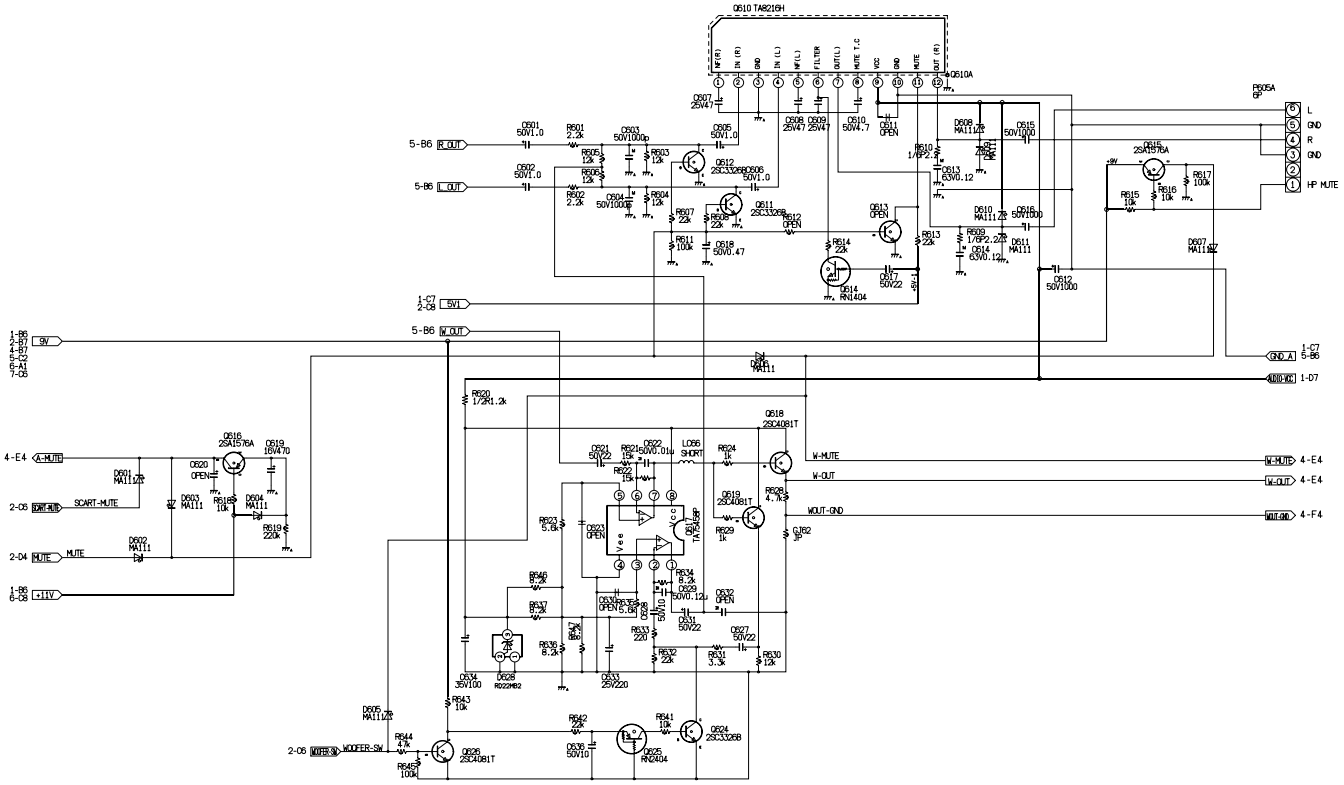
■ SCHEMATIC DIAGRAM STRUCTURE:

- SIGNAL
  - OTHERS [SHEET-1]..... 1/15
  - M-CON [SHEET-2]..... 2/15
  - AUDIO [SHEET-3]..... 3/15
  - AV [SHEET-4]..... 4/15
  - TUNER / IF / MA [SHEET-5]..... 5/15
  - BEP [SHEET-6]..... 6/15
  - MCD [SHEET-7]..... 7/15
- ED-WAC 8/15
- POWER 9/15
- DEF / CONV
  - DEF [SHEET-1]..... 10/15
  - CONV [SHEET-2]..... 11/15
- CRT-D / SVM 12/15
- D-CONVER 13/15
- TEXT-P2 ..... 14/15
- FRONT-IN RMT-IN 15/15

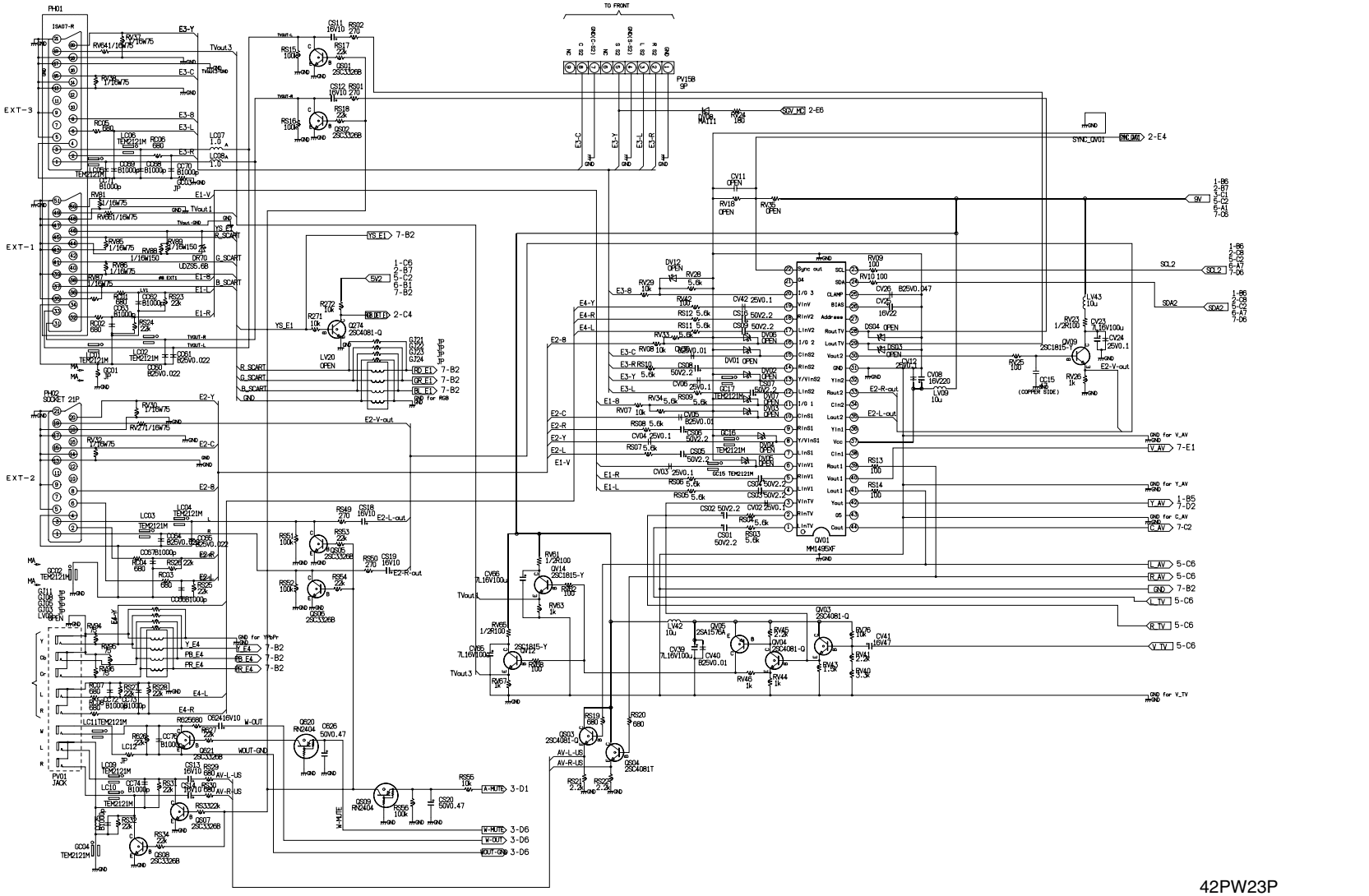

Painter2
SOCKET B-B 15P 2.0mm
TO DEF/CONVER
BB20A
6P
CR99
25V0.1
CR26
2SC4081-Q
CR40
2SC4081-Q
CR35
2SC4081-Q
R_TXT&CNV
G_TXT&CNV
B_TXT&CNV
YS_TXT&CNV
DR81
DR82
DR83
MA111
TEXT RESET
CT99
10V1000
RA39
1P 0510
RA32
OPEN
RA57
4.7k
RA56
10k
QA05
2SC4667
AFC
6-A6
D630
ERB12-01
Q630
FQ05HD11
Q630A
D632
ERB12-01
Q632
FQ05HD11
Q632A
C831
16V47
C630
50V10
C835
10V47
C634
50V10
BB21A
BB 16P SOCKET
+11V
GND
+7V
STANDBY GND
POWER
RESET
+5V-1
AUDIO GND
AUDIO VCC
C170
50V0.1
BB23
+3.2V
P805A
1P
42PW23P
42PW33P
43VJ13P
50VJ23P
SIGNAL (OTHERS)
SHEET-1 (1/7) 1/15



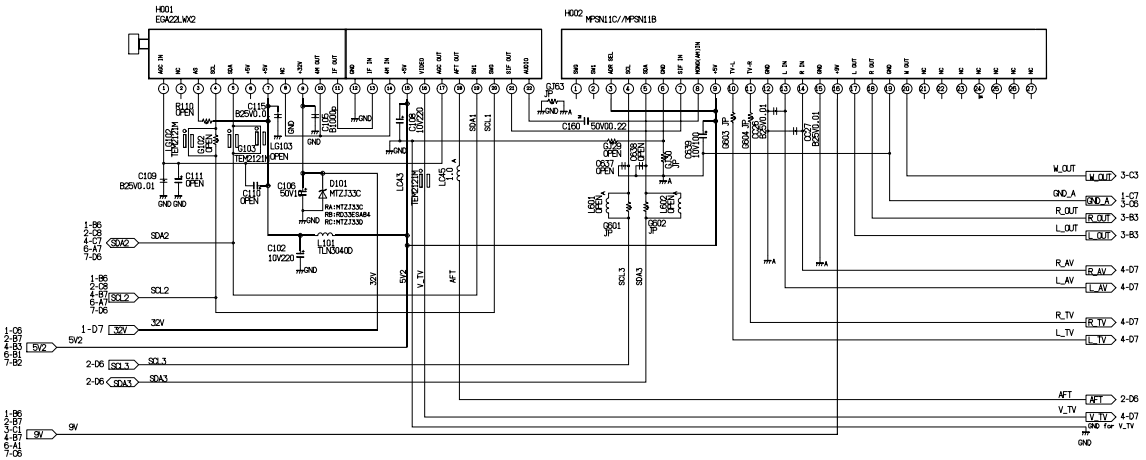
42PW23P
42PW33P
43VJ13P
50VJ23P
SIGNAL (M-CON)
SHEET-2 (2/7) 2/15



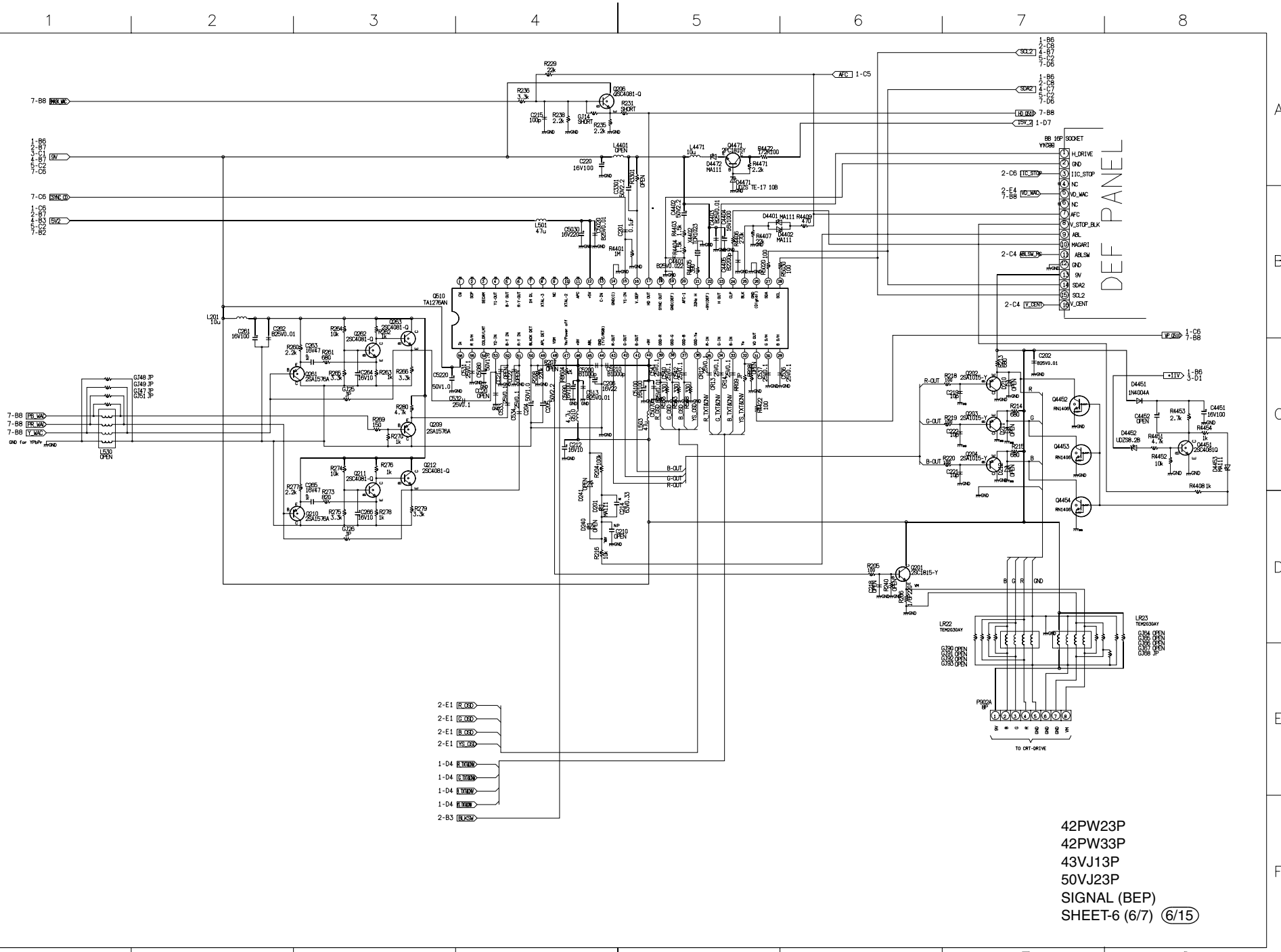
42PW23P
42PW33P
43VJ13P
50VJ23P
SIGNAL (AUDIO)
SHEET-3 (3/7) 3/15



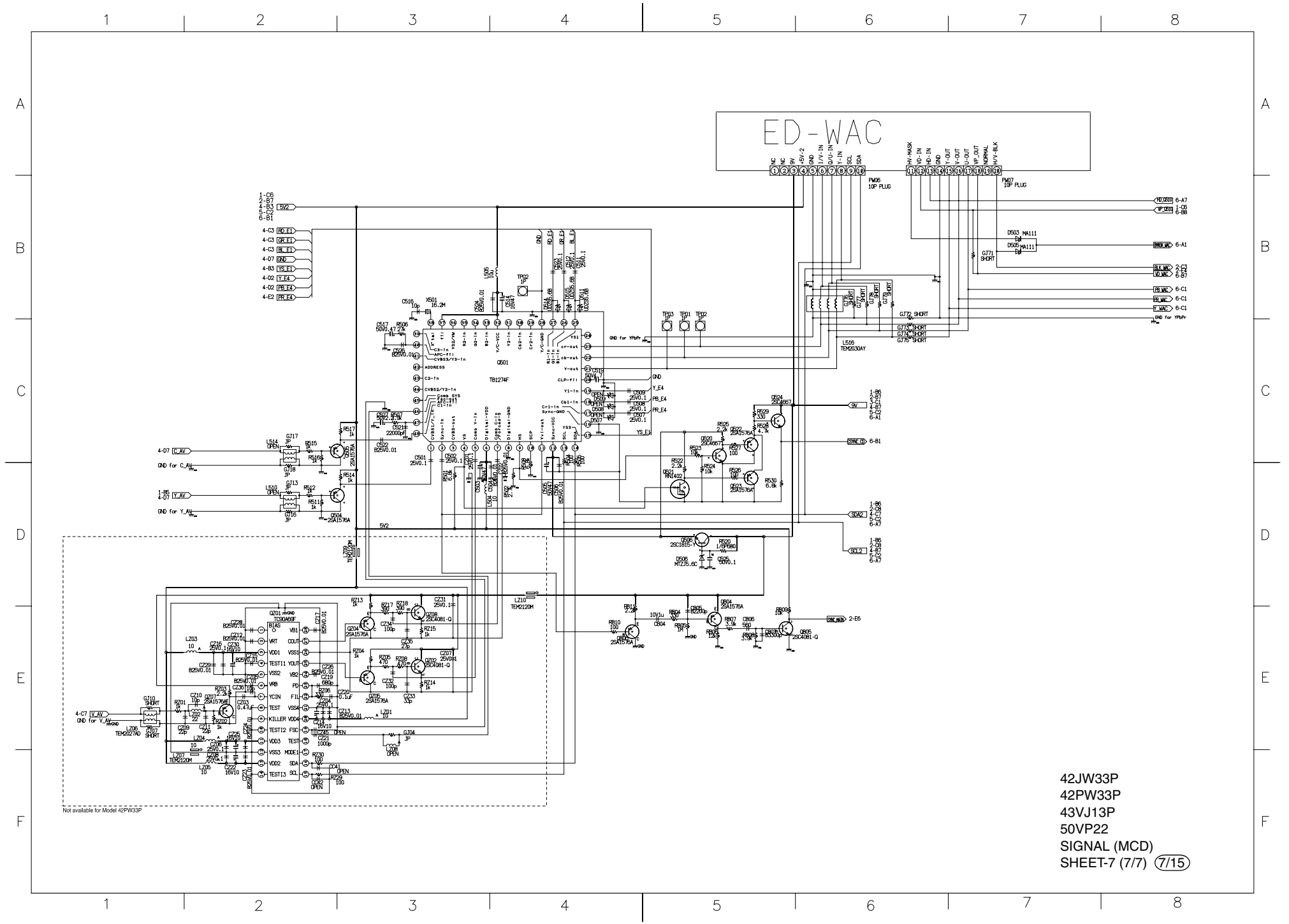
42PW23P
42PW33P
43VJ13P
50VJ23P
SIGNAL (AV)
SHEET-4 (4/7) (4/15)



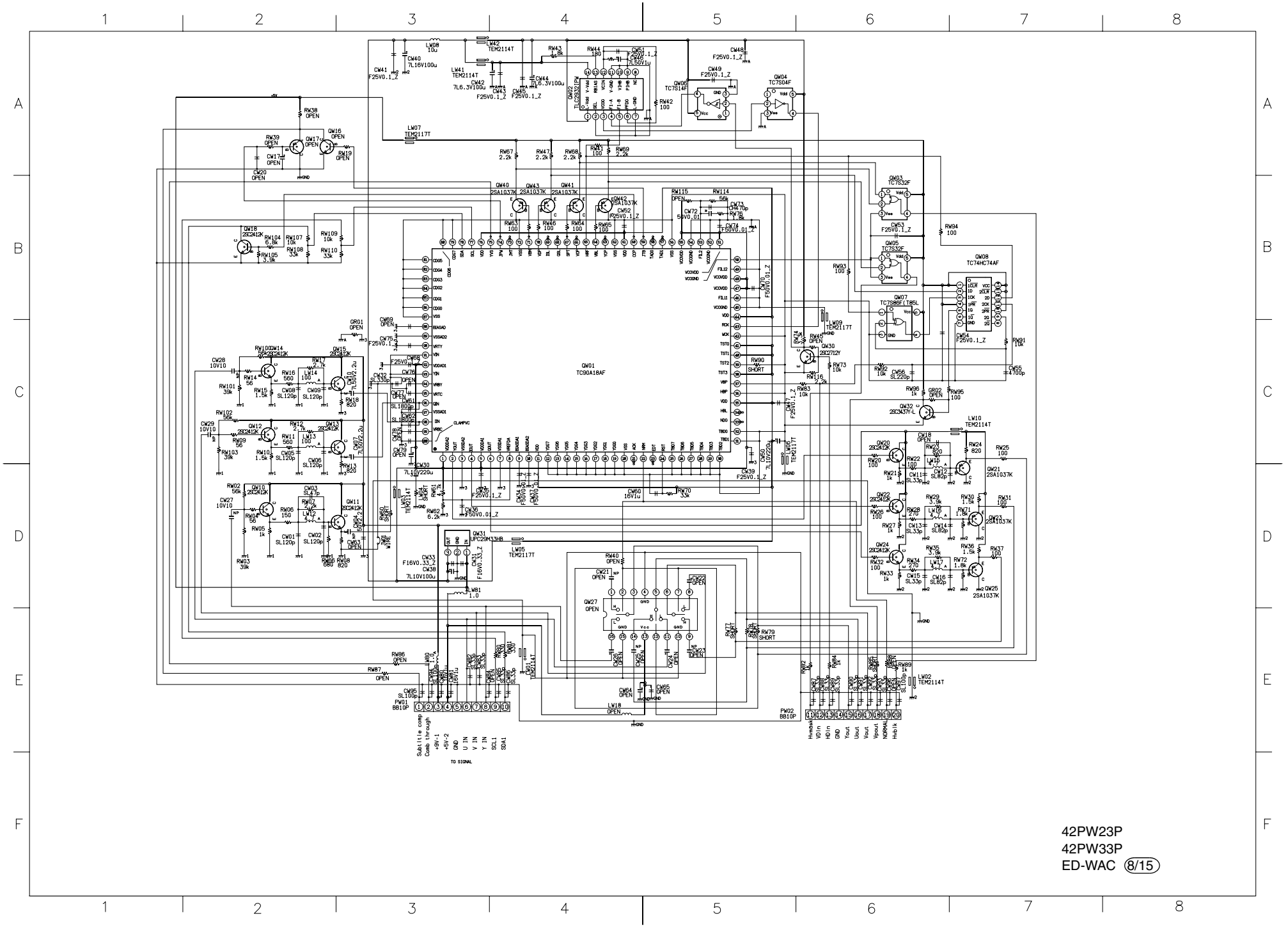
42PW23P
42PW33P
43VJ13P
50VJ23P
SIGNAL (TUNER/IF/MA)
SHEET-5 (5/7) (5/15)



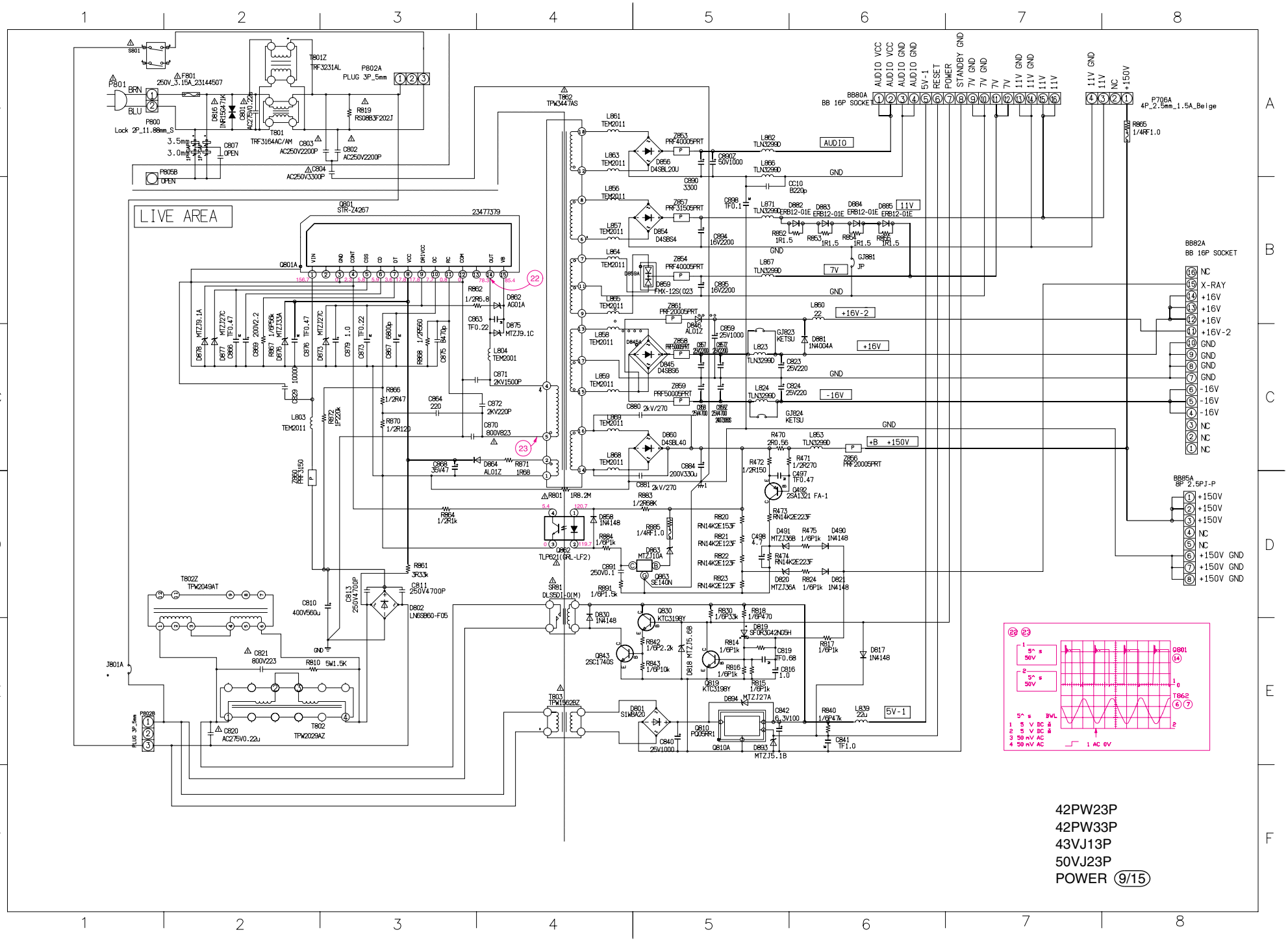
42PW23P
42PW33P
43VJ13P
50VJ23P
SIGNAL (BEP)
SHEET-6 (6/7) (6/15)



42JW33P
42PW33P
43VJ13P
50VP22
SIGNAL (MCD)
SHEET-7 (7/7) 7/15



42PW23P
42PW33P
ED-WAC (8/15)


LIVE AREA
AUDIO VCC
AUDIO VCC
AUDIO GND
AUDIO GND
5V-1
RESET
POWER
STANDBY GND
7V GND
7V GND
7V
7V
11V GND
11V GND
11V
11V
11V GND
11V
NC
+150V
BB80A
BB 16P SOCKET
P706A
4P_2.5mm_1.5A_Beige
BB82A
BB 16P SOCKET
NC
X-RAY
+16V
+16V
+16V
+16V-2
GND
GND
GND
GND
-16V
-16V
-16V
NC
NC
NC
BB85A
8P 2.5PJ-P
+150V
+150V
+150V
NC
NC
+150V GND
+150V GND
+150V GND
AUDIO
GND
11V
GND
+16V-2
+16V
GND
-16V
GND
+B +150V
5V-1
P801
BRN
BLU
P800
Lock 2P_11.88mm_S
P802A
PLUG 3P_5mm
P805B
OPEN
P802B
PLUG 3P_5mm
J801A
T801Z
TRF3231AL
T801
TRF3164AC/AM
T802Z
TPW2049AT
T802
TPW2029AZ
T803
TPW1962BZ
T862
TPW3447AS
Q801
STR-Z4267
Q862
TLP621(GRL-LF2)
SR81
DLS5D1-0(M)
Q830
KTC3198Y
Q843
2SC1740S
Q819
KTC3198Y
Q810A
FQD5AR1
Q492
2SA1321 FA-1
D802
LN6S860-F05
D810
S1WBA20
D893
MTZJ5.1B
D894
MTZJ27A
D818
MTZJ5.6B
D819
SP-0R3G42N05H
D863
MTZJ10A
D891
MTZJ36B
D820
MTZJ36A
D656
D4SBL20U
D854
D4SBS4
D859
FMX-12S(023
D845
D4SB60
D846
AL01Z
D864
AL01Z
D860
D4SBL40
D858
1N4148
D830
1N4148
D817
1N4148
D821
1N4148
D490
1N4148
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D492
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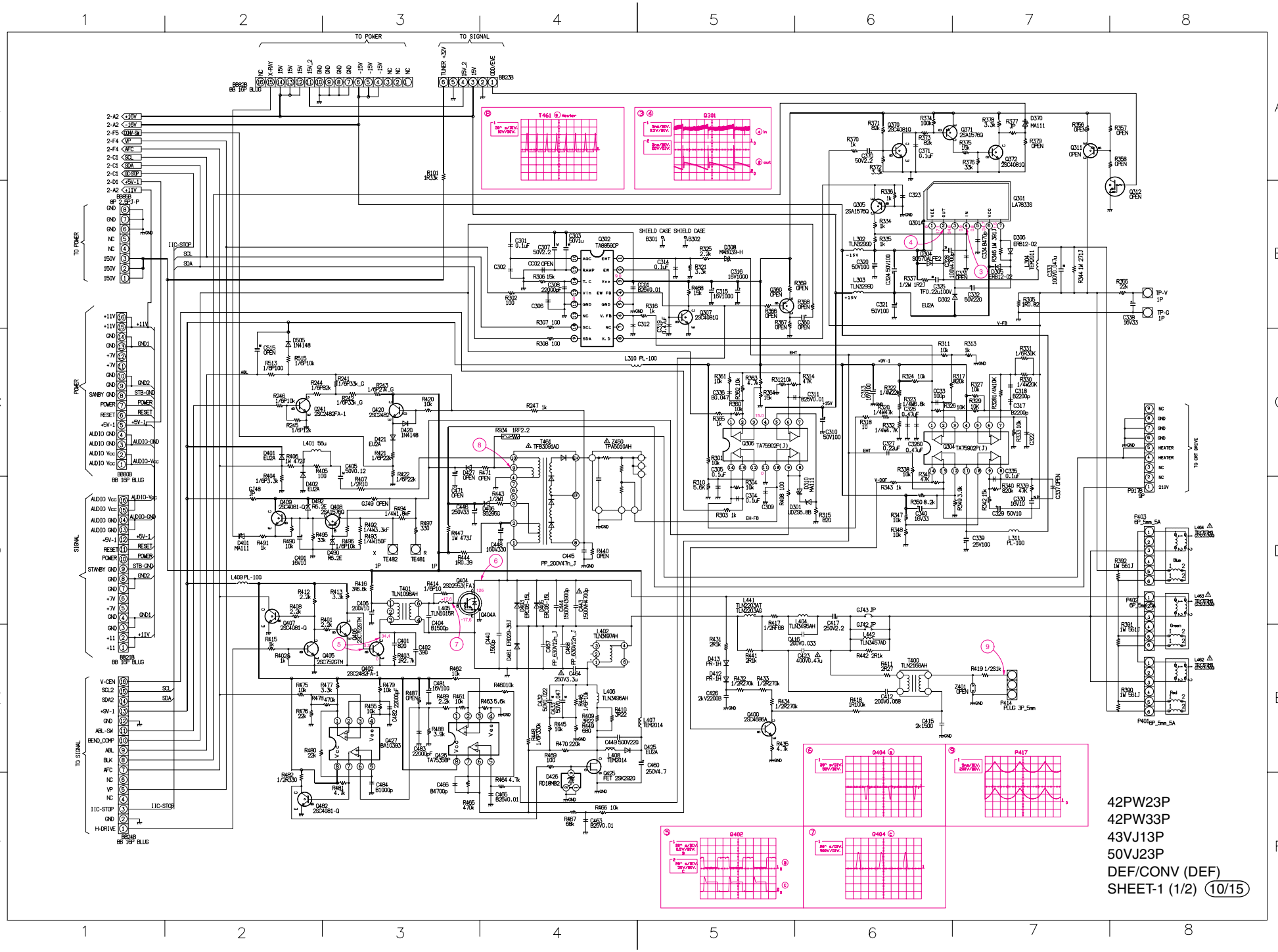
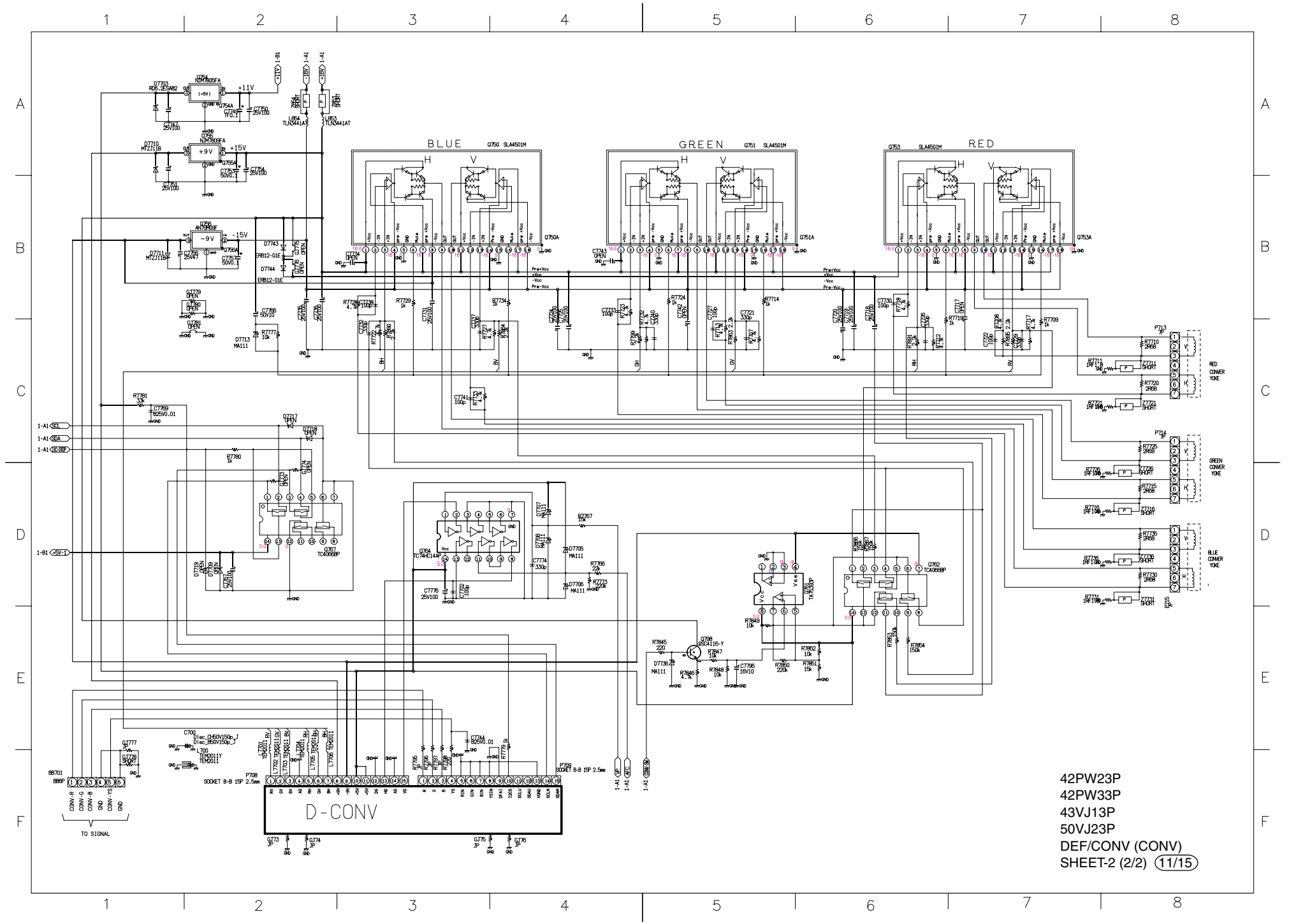
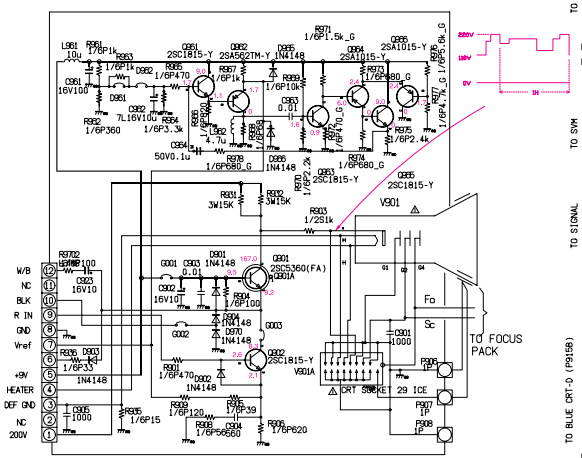
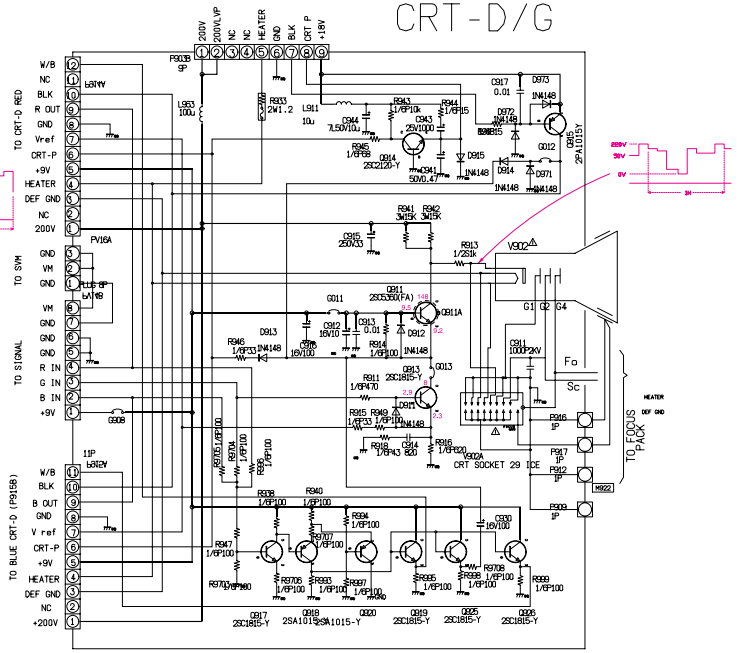
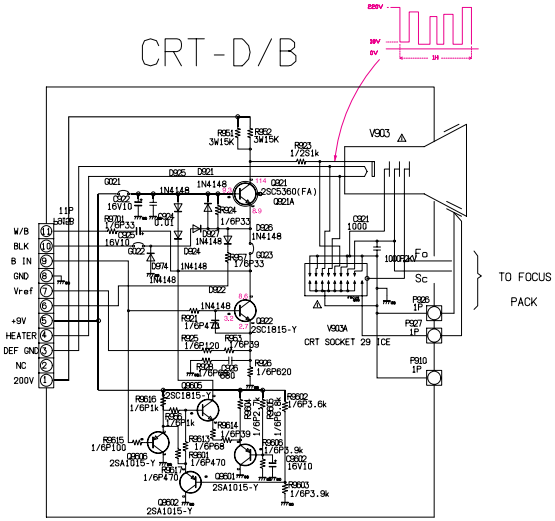
D530

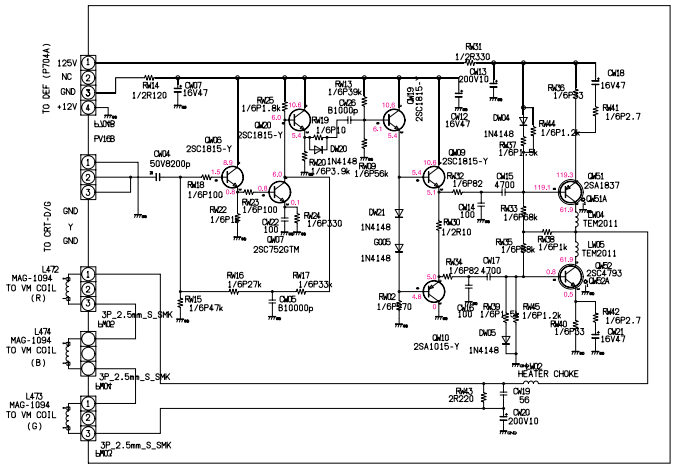

TO POWER
TO SIGNAL
SHIELD CASE SHIELD CASE
42PW23P
42PW33P
43VJ13P
50VJ23P
DEF/CONV (DEF)
SHEET-1 (1/2) 10/15


BLUE
GREEN
RED
D-CONV
TO SIGNAL
42PW23P
42PW33P
43VJ13P
50VJ23P
DEF/CONV (CONV)
SHEET-2 (2/2) 11/15

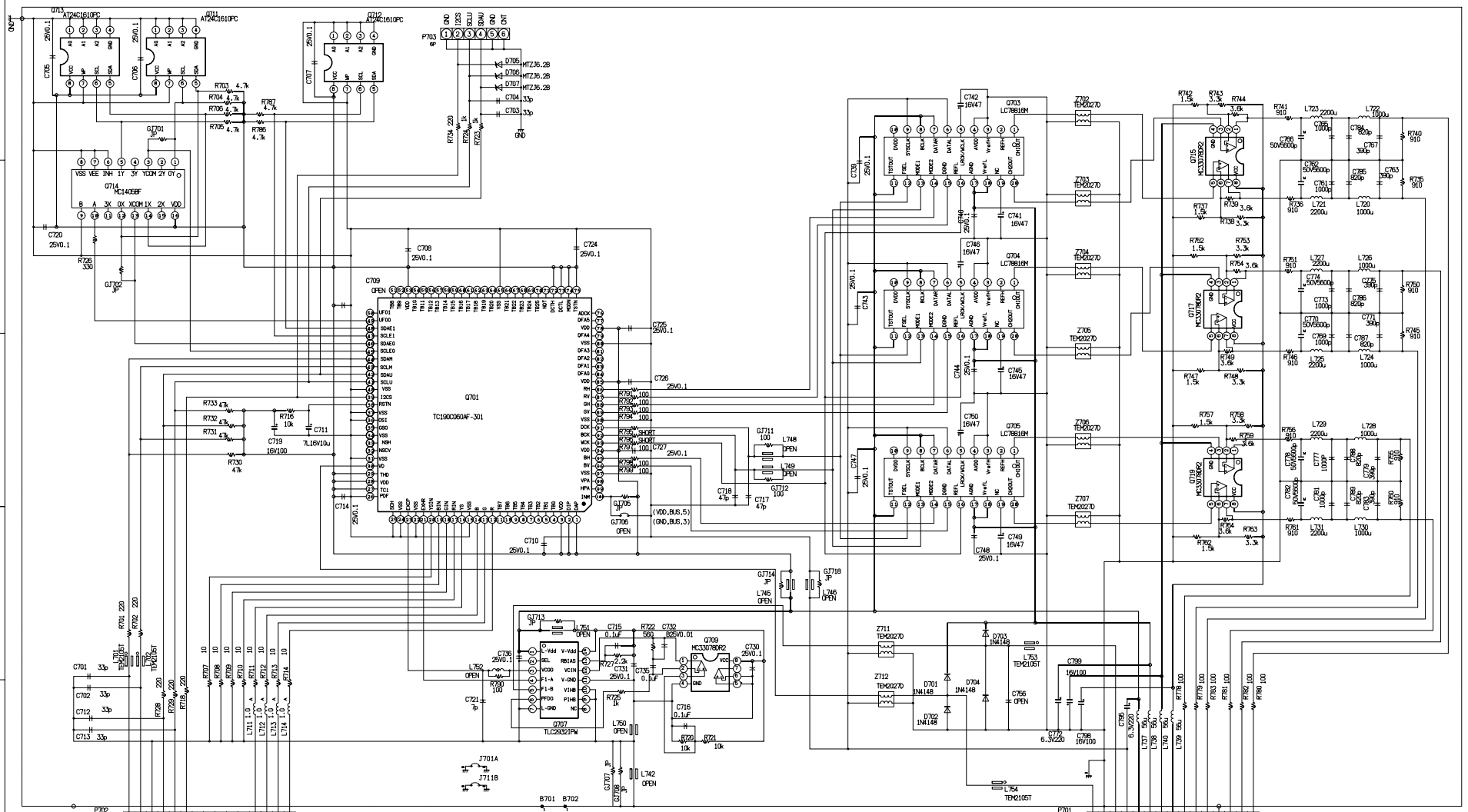






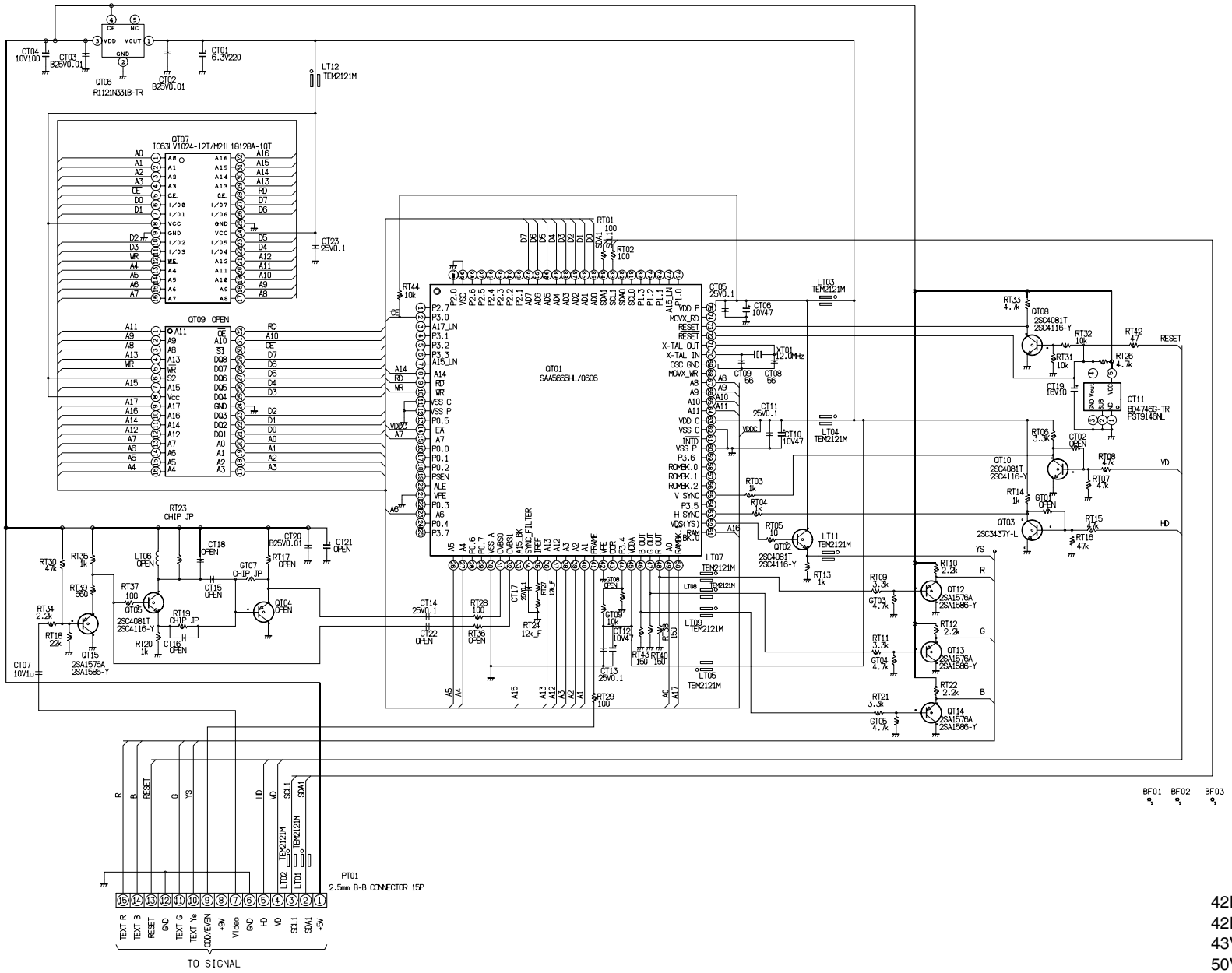


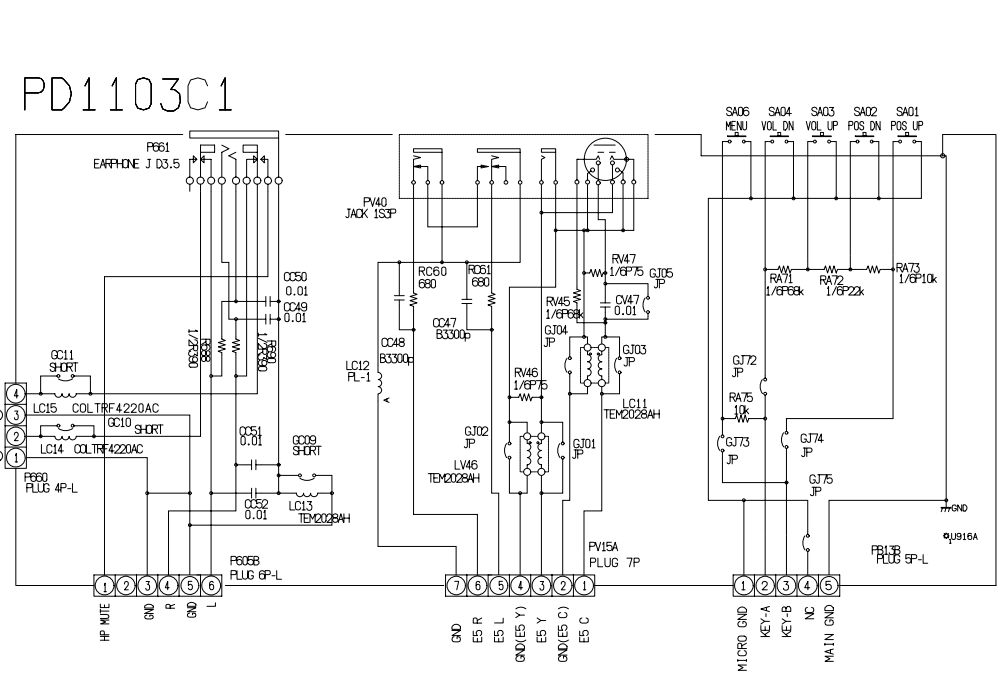
42PW23P
42PW33P
43VJ13P
50VJ23P
CRT-D/SVM (12/15)

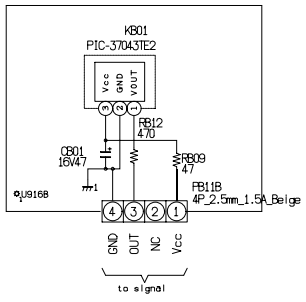


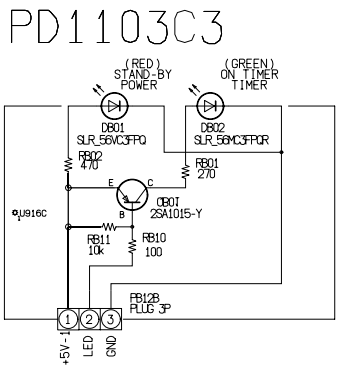
	Q711	Q712	Q713	Q714 R726	GJ701 GJ702	R686 R687	R705 R706
TNP4.3	4KB	×	×	×	○	○	×
TNP16.9	16KB	×	×	×	○	○	×
TUK4.3	16KB	16KB	×	×	○	○	×
TUK16.9	16KB	16KB	16KB	○	×	○	○
TSP4.3 DLTV4.3	16KB	×	×	×	○	○	×
TSP16.9	16KB	16KB	16KB	○	×	○	○

42PW23P
42PW33P
D-CONVER (13/15)


QT01
SAA5665HL/0606
QT07
1C63LV1024-12T/M21L18128A-10T
QT09 OPEN
PT01
2.5mm B-B CONNECTOR 15P
TO SIGNAL
TEXT R
TEXT B
RESET
GND
TEXT G
TEXT Ys
+9V
Video
GND
HD
VD
SCL1
SDA1
+5V
42PW23P
42PW33P
43VJ13P
50VJ23P
TEXT-P2 (14/15)







42WH36P
43PH36P
42WH38B
42PW33P
43VJ33P
FRONT (15/15)